Form No. 3354-977

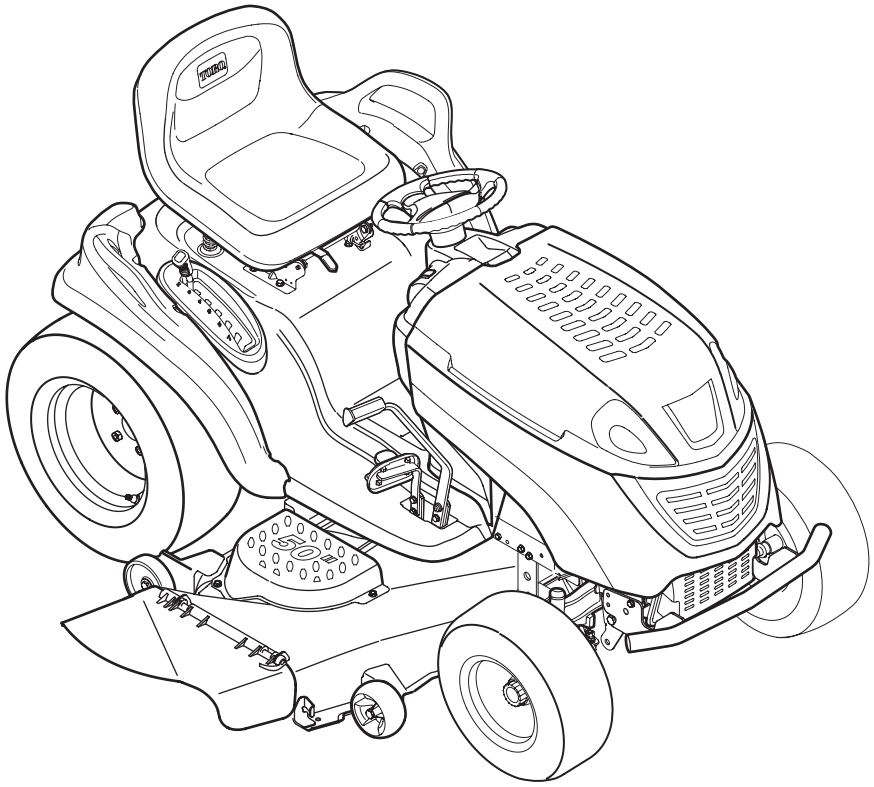
TORO®

Count on it.

Operator's Manual

GT2200 & GT2300 Garden Tractors

Model No. 14AQ81RP744
Model No. 14AK81RK744



Register your product at www.Toro.com

Original Instructions (EN)
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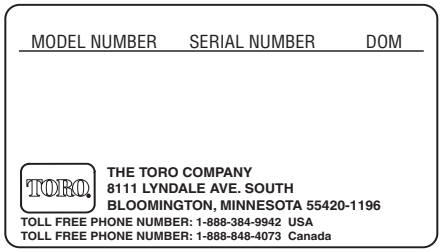
FINDING MODEL NUMBER

This Operator's Manual is an important part of your new garden tractor. It will help you assemble, prepare and maintain the unit for best performance. Please read and understand what it says.

Before you start assembling your new equipment, please locate the model plate on the equipment and copy the information from it in the space provided below. A sample model plate is also illustrated below. You can locate the model plate by looking at the underside of the tractor's seat. This information will be necessary to use the manufacturer's web site and/or help from a Toro Service Dealer.



Copy the model number here: _____

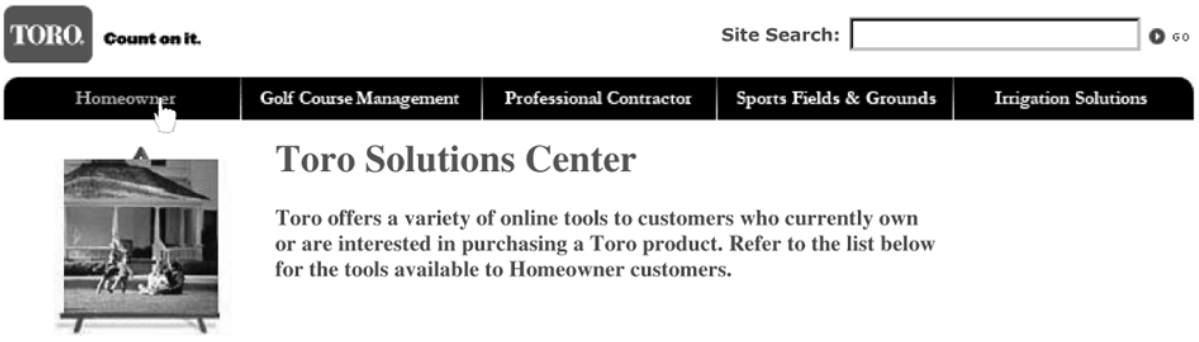
Copy the serial number here: _____

CUSTOMER SUPPORT

Please do NOT return the unit to the retailer without first contacting Customer Support.

If you have difficulty assembling this product or have any questions regarding the controls, operation or maintenance of this unit, you can seek help from the experts. Choose from the options below:

Visit **www.toro.com** for many useful suggestions. Click on Customer Care in the Homeowners section of the Toro Solutions Center and help is immediately available.


TORO.
Count on it.
Site Search:
GO
Homeowner
Golf Course Management
Professional Contractor
Sports Fields & Grounds
Irrigation Solutions
Toro Solutions Center
Toro offers a variety of online tools to customers who currently own or are interested in purchasing a Toro product. Refer to the list below for the tools available to Homeowner customers.

If you have questions concerning your tractor, please call us at 1-888-384-9942 (U.S.) or 1-888-848-4073 (Canada).

SECTION 1: IMPORTANT SAFE OPERATION PRACTICES

WARNING: This symbol points out important safety instructions which, if not followed, could endanger the personal safety and/or property of yourself and others. Read and follow all instructions in this manual before attempting to operate this machine. Failure to comply with these instructions may result in personal injury. When you see this symbol–heed its warning.

DANGER: This machine was built to be operated according to the rules for safe operation in this manual. As with any type of power equipment, carelessness or error on the part of the operator can result in serious injury. This machine is capable of amputating hands and feet and throwing objects. Failure to observe the following safety instructions could result in serious injury or death.

WARNING: This unit is equipped with an internal combustion engine and should not be used on or near any unimproved forest-covered, brush-covered or grass-covered land unless the engine's exhaust system is equipped with a spark arrester meeting applicable local or state laws (if any). If a spark arrester is used, it should be maintained in effective working order by the operator. In the State of California the above is required by law (Section 4442 of the California Public Resources Code). Other states may have similar laws. Federal laws apply on federal lands. A spark arrester for the muffler is available through your *Toro* service dealer or contact Toro at 8111 Lyndale Avenue South, Bloomington, IN 55420-0019.

California Proposition 65 Warning:

WARNING: Engine exhaust, some of its constituents, and certain vehicle components contain or emit chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

GENERAL OPERATION

1. Read, understand, and follow all instructions on the machine and in the manual(s) before attempting to assemble and operate. Keep this manual in a safe place for future and regular reference and for ordering replacement parts.
2. Be familiar with all controls and their proper operation. Know how to stop the machine and disengage PTO/blades quickly.
3. Never allow children under 14 years old to operate this machine. Children 14 years old and over should read and understand the operation instructions and safety rules in this manual and should be trained and supervised by a parent or responsible adult.
4. Never allow adults to operate this machine without proper instruction.
5. To help avoid blade contact or a thrown object injury, keep bystanders, helpers, children and pets at least 75 feet from the machine while it is in operation. Stop machine if anyone enters the area.
6. Thoroughly inspect the area where the equipment is to be used. Remove all stones, sticks, wire, bones, toys, and other foreign objects which could be picked up and thrown by the blade(s). Thrown objects can cause serious personal injury.
7. Plan your mowing pattern to avoid discharge of material toward roads, sidewalks, bystanders and the like. Also, avoid discharging material against a wall or obstruction which may cause discharged material to ricochet back toward the operator.
8. Always wear safety glasses or safety goggles during operation and while performing an adjustment or repair to protect your eyes. Thrown objects which ricochet can cause serious injury to the eyes.
9. Wear sturdy, rough-soled work shoes and close-fitting slacks and shirts. Loose fitting clothes and jewelry can be caught in movable parts. Never operate this machine in bare feet or sandals.
10. Be aware of the mower and attachment discharge direction and do not point it at anyone. Do not operate the mower without the discharge cover or entire grass catcher in its proper place**.**
11. Do not put hands or feet near rotating parts or under the cutting deck. Contact with the blade(s) can amputate hands and feet.
12. A missing or damaged discharge cover can cause blade contact or thrown object injuries.
13. Stop the blade(s) when crossing gravel drives, walks, or roads and while not cutting grass.
14. Watch for traffic when operating near or crossing roadways. This machine is not intended for use on any public roadway.
15. Do not operate the machine while under the influence of alcohol or drugs.
16. Mow only in daylight or good artificial light.
17. Never carry passengers.
18. Disengage blade(s) before travelling in reverse. Back up slowly. Always look down and behind before and while backing to avoid a back-over accident.

19. Slow down before turning. Operate the machine smoothly. Avoid erratic operation and excessive speed.
20. Disengage blade(s), set parking brake, stop engine and wait until the blade(s) come to a complete stop before removing grass catcher, emptying grass, unclogging chute, removing any grass or debris, or making any adjustments.
21. Never leave a running machine unattended. Always turn off blade(s), place transmission in neutral, set parking brake, stop engine and remove key before dismounting.
22. Use extra care when loading or unloading the machine into a trailer or truck. This unit should not be driven up or down ramp(s), because the unit could tip over, causing serious personal injury**.** The unit must be pushed manually on ramp(s) to load or unload properly.
23. Muffler and engine become hot and can cause a burn. Do not touch.
24. Check overhead clearances carefully before driving under low hanging tree branches, wires, door openings etc., where the operator may be struck or pulled from the unit, which could result in serious injury.
25. Disengage all attachment clutches and depress the brake pedal completely before attempting to start engine.
26. Your machine is designed to cut normal residential grass of a height no more than 10". Do not attempt to mow through unusually tall, dry grass (e.g., pasture) or piles of dry leaves. Dry grass or leaves may contact the engine exhaust and/or build up on the mower deck presenting a potential fire hazard.
27. Use only accessories and attachments approved for this machine by the machine manufacturer. Read, understand and follow all instructions provided with the approved accessory or attachment.
28. Data indicates that operators, age 60 years and above, are involved in a large percentage of riding mower-related injuries. These operators should evaluate their ability to operate the riding mower safely enough to protect themselves and others from serious injury.
29. If situations occur which are not covered in this manual, use care and good judgment. Contact a Toro Service Dealer for assistance.

SLOPE OPERATION

Slopes are a major factor related to loss of control and tip-over accidents which can result in severe injury or death. All slopes require extra caution. If you cannot back up the slope or if you feel uneasy on it, do not mow it.

For your safety, use the slope gauge included as part of this manual to measure slopes before operating this unit on a sloped or hilly area. If the slope is greater than 15 degrees as shown on the slope gauge, do not operate this unit on that area or serious injury could result.

DO:

1. Mow up and down slopes, not across. Exercise extreme caution when changing direction on slopes.
2. Watch for holes, ruts, bumps, rocks, or other hidden objects. Uneven terrain could overturn the machine. Tall grass can hide obstacles.
3. Use slow speed. Choose a low enough speed setting so that you will not have to stop while on the slope. Tires may lose traction on slopes even though the brakes are functioning properly. Always keep machine in gear when going down slopes to take advantage of engine braking action.
4. Follow the manufacturer's recommendations for wheel weights or counterweights to improve stability.
5. Use extra care with grass catchers or other attachments. These can change the stability of the machine.
6. Keep all movement on the slopes slow and gradual. Do not make sudden changes in speed or direction. Rapid transmission engagement or braking could cause the front of the machine to lift and rapidly flip over backwards which could cause serious injury.
7. Avoid starting or stopping on a slope. If tires lose traction, disengage the blade(s) and proceed slowly straight down the slope.

DO NOT:

1. Do not turn on slopes unless necessary; then, turn slowly and gradually downhill, if possible.
2. Do not mow near drop-offs, ditches or embankments. The mower could suddenly turn over if a wheel is over the edge of a cliff, ditch, or if an edge caves in.
3. Do not try to stabilize the machine by putting your foot on the ground.
4. Do not use a grass catcher on steep slopes.
5. Do not mow on wet grass. Reduced traction could cause sliding.
6. Do not disengage transmission and coast downhill. Doing so may cause the operator to lose control of the machine resulting in serious injury or death.
7. Do not tow heavy pull behind attachments (e.g. loaded dump cart, lawn roller, etc.) on slopes greater than 5 degrees. When going down hill, the extra weight tends to push the tractor and may cause you to loose control. (e.g. tractor may speed up, braking and steering ability are reduced, attachment may jack-knife and cause tractor to overturn).

CHILDREN

1. Tragic accidents can occur if the operator is not alert to the presence of children. Children are often attracted to the machine and the mowing activity. They do not understand the dangers. Never assume that children will remain where you last saw them.
    a. Keep children out of the mowing area and in watchful care of a responsible adult other than the operator.
    b. Be alert and turn machine off if a child enters the area.
    c. Before and while backing, look behind and down for small children.
    d. Never carry children, even with the blade(s) shut off. They may fall off and be seriously injured or interfere with safe machine operation.
    e. Use extreme care when approaching blind corners, doorways, shrubs, trees or other objects that may block your vision of a child who may run into the machine.
    f. To avoid back-over accidents, always disengage the cutting blade(s) before travelling in reverse. The "Reverse Caution Mode" should not be used when children or others are around.
    g. Keep children away from hot or running engines. They can suffer burns from a hot muffler.
    h. Remove key when machine is unattended to prevent unauthorized operation.
2. Never allow children under 14 years old to operate the machine. Children 14 years old and over should read and understand the operation instructions and safety rules in this manual and should be trained and supervised by a parent.

TOWING

1. Tow only with a machine that has a hitch designed for towing. Do not attach towed equipment except at the hitch point.
2. Follow the manufacturers recommendation for weight limits for towed equipment and towing on slopes.
3. Never allow children or others in or on towed equipment.
4. Do not tow heavy pull behind attachments (e.g. loaded dump cart, lawn roller, etc.) on slopes greater than 5 degrees. When going down hill, the extra weight tends to push the tractor and may cause you to loose control. (e.g. tractor may speed up, braking and steering ability are reduced, attachment may jack-knife and cause tractor to overturn).
5. Travel slowly and allow extra distance to stop.
6. On slopes, the weight of the towed equipment may cause loss of traction and loss of control.
7. Do not disngage transmission and coast downhill.

SERVICE

SAFE HANDLING OF GASOLINE:

1. **To avoid personal injury or property damage** use extreme care in handling gasoline. Gasoline is extremely flammable and the vapors are explosive**.** Serious personal injury can occur when gasoline is spilled on yourself or your clothes which can ignite. Wash your skin and change clothes immediately.
    a. Use only an approved gasoline container.
    b. Never fill containers inside a vehicle or on a truck or trailer bed with a plastic liner. Always place containers on the ground away from your vehicle before filling.
    c. When practical, remove gas-powered equipment from the truck or trailer and refuel it on the ground. If this is not possible, then refuel such equipment on a trailer with a portable container, rather than from a gasoline dispenser nozzle.
    d. Keep the nozzle in contact with the rim of the fuel tank or container opening at all times until fueling is complete. Do not use a nozzle lock-open device.
    e. Extinguish all cigarettes, cigars, pipes and other sources of ignition.
    f. Never fuel machine indoors.
    g. Never remove gas cap or add fuel while the engine is hot or running. Allow engine to cool at least two minutes before refueling.
    h. Never over fill fuel tank. Fill tank to no more than1/2-inch below the bottom of the filler neck to allow space for fuel expansion.
    i. Replace gasoline cap and tighten securely.
    j. If gasoline is spilled, wipe it off the engine and equipment. Move unit to another area. Wait 5 minutes before starting the engine.
    k. To reduce fire hazards, keep machine free of grass, leaves, or other debris build-up. Clean up oil or fuel spillage and remove any fuel soaked debris.
    l. Never store the machine or fuel container inside where there is an open flame, spark or pilot light as on a water heater, space heater, furnace, clothes dryer or other gas appliances.
    m. Allow a machine to cool at least 5 minutes before storing.

GENERAL SERVICE:

1. Never run an engine indoors or in a poorly ventilated area. Engine exhaust contains carbon monoxide, an odorless, and deadly gas.
2. Before cleaning, repairing, or inspecting, make certain the blade(s) and all moving parts have stopped.Remove the key to prevent unintended starting.
3. Periodically check to make sure the blades come to complete stop within approximately five (5) seconds after operating the blade disengagement control. If the blades do not stop within the this time frame, your unit should be serviced professionally by a Toro Service Dealer.
4. Check brake operation frequently as it is subjected to wear during normal operation. Adjust and service as required.
5. Check the blade(s) and engine mounting bolts at frequent intervals for proper tightness. Also, visually inspect blade(s) for damage (e.g., excessive wear, bent, cracked).
   Replace the blade(s) with the original equipment manufacturer's (O.E.M.) blade(s) only. Use of parts which do not meet the original equipment specifications may lead to improper performance and compromise safety!
6. Mower blades are sharp. Wrap the blade or wear gloves, and use extra caution when servicing them.
7. Keep all nuts, bolts, and screws tight to be sure the equipment is in safe working condition.
8. Never tamper with the safety interlock system or other safety devices. Check their proper operationbefore each use.
9. After striking a foreign object, stop the engine, and remove the key. Thoroughly inspect the machine for any damage. Repair the damage before starting and operating.
10. Never attempt to make adjustments or repairs to the machine while the engine is running.
11. Grass catcher components and the discharge cover are subject to wear and damage which could expose moving parts or allow objects to be thrown.
12. For safety protection, frequently check components and replace immediately with original equipment manufacturer's (O.E.M.) parts only. Use of parts which do not meet the original equipment specifications may lead to improper performance and compromise safety!
13. Do not change the engine governor settings or over-speed the engine. The governor controls the maximum safe operating speed of the engine.
14. Maintain or replace safety and instruction labels as necessary (i.e. when scratched, damaged or missing).
15. Observe proper disposal laws and regulations for gas, oil, etc. to protect the environment.

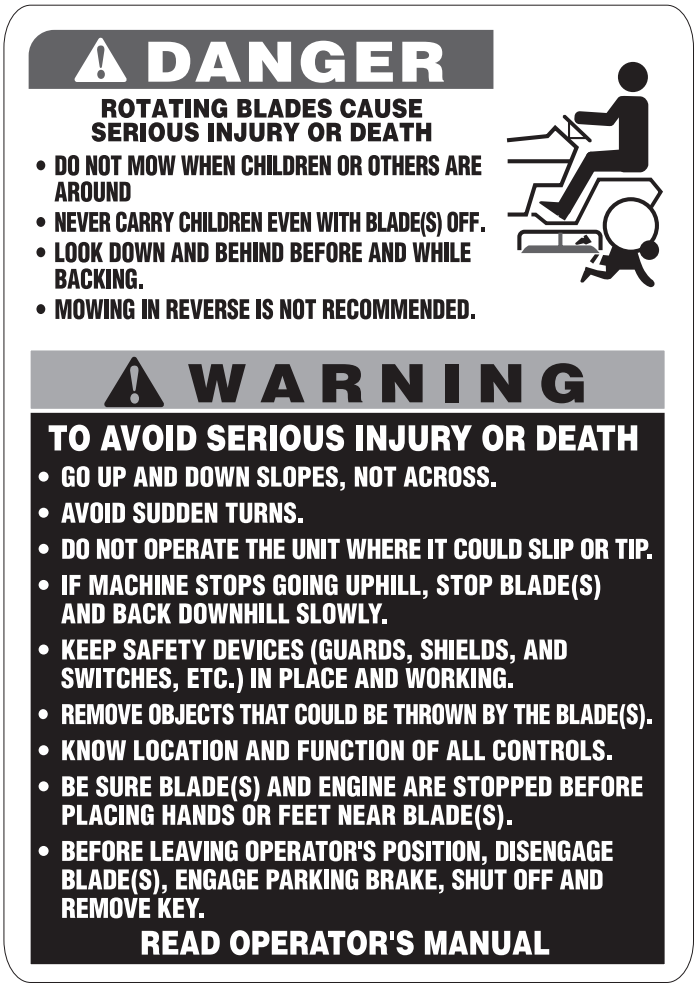
WARNING: YOUR RESPONSIBILITY Restrict the use of this power machine to persons who agree to read, understand and follow the warnings and instructions in this manual and on the machine.

SECTION 2: SAFETY LABELS

Safety labels found on your garden tractor are illustrated below (3/4 actual size). Always follow their instructions and head their warnings. The label part number is listed below each. If you discover a safety label is scratched, damaged or missing, order a replacement immediately.

DANGER
AVOID SERIOUS INJURY OR DEATH
• KEEP HANDS AND FEET AWAY FROM ROTATING PARTS.
• REMOVE OBJECTS THAT CAN BE THROWN BY THE BLADE IN ANY DIRECTION. WEAR SAFETY GLASSES.
• DO NOT MOW WHEN CHILDREN OR OTHERS ARE AROUND. NEVER CARRY CHILDREN EVEN WITH BLADES OFF.
• USE EXTRA CAUTION ON SLOPES. DO NOT MOW SLOPES GREATER THAN 15°. MOW UP AND DOWN, NOT ACROSS AVOID SUDDEN TURNS, USE LOW SPEED.
MAX 15°
S30015
READ OPERATOR'S MANUAL. KEEP SAFETY DEVICES IN PLACE AND WORKING.

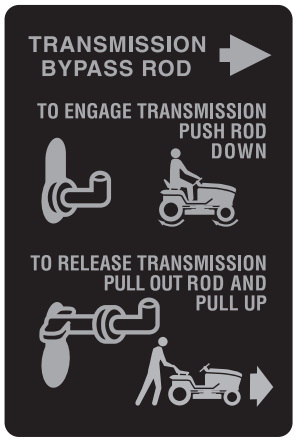
TO REDUCE THE RISK OF INJURY, DO NOT OPERATE UNLESS DISCHARGE COVER OR GRASS CATCHER IS IN ITS PROPER PLACE. IF DAMAGED, REPLACE IMMEDIATELY.
DANGER
KEEP HANDS and FEET AWAY

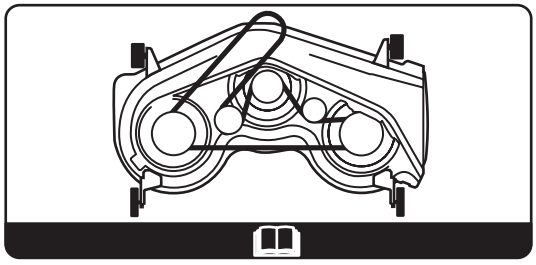

DANGER
ROTATING BLADES CAUSE SERIOUS INJURY OR DEATH
• DO NOT MOW WHEN CHILDREN OR OTHERS ARE AROUND
• NEVER CARRY CHILDREN EVEN WITH BLADE(S) OFF.
• LOOK DOWN AND BEHIND BEFORE AND WHILE BACKING.
• MOWING IN REVERSE IS NOT RECOMMENDED.
WARNING
TO AVOID SERIOUS INJURY OR DEATH
• GO UP AND DOWN SLOPES, NOT ACROSS.
• AVOID SUDDEN TURNS.
• DO NOT OPERATE THE UNIT WHERE IT COULD SLIP OR TIP.
• IF MACHINE STOPS GOING UPHILL, STOP BLADE(S) AND BACK DOWNHILL SLOWLY.
• KEEP SAFETY DEVICES (GUARDS, SHIELDS, AND SWITCHES, ETC.) IN PLACE AND WORKING.
• REMOVE OBJECTS THAT COULD BE THROWN BY THE BLADE(S).
• KNOW LOCATION AND FUNCTION OF ALL CONTROLS.
• BE SURE BLADE(S) AND ENGINE ARE STOPPED BEFORE PLACING HANDS OR FEET NEAR BLADE(S).
• BEFORE LEAVING OPERATOR'S POSITION, DISENGAGE BLADE(S), ENGAGE PARKING BRAKE, SHUT OFF AND REMOVE KEY.
READ OPERATOR'S MANUAL

DANGER
KEEP HANDS AND FEET AWAY. DO NOT OPERATE MOWER UNLESS CHUTE DEFLECTOR OR ENTIRE GRASS CATCHER IS IN ITS PROPER PLACE.
S30503
ASSEMBLE CHUTE DEFLECTOR TO THIS UNIT BEFORE OPERATING.

SECTION 3: INSTRUCTIONAL LABELS

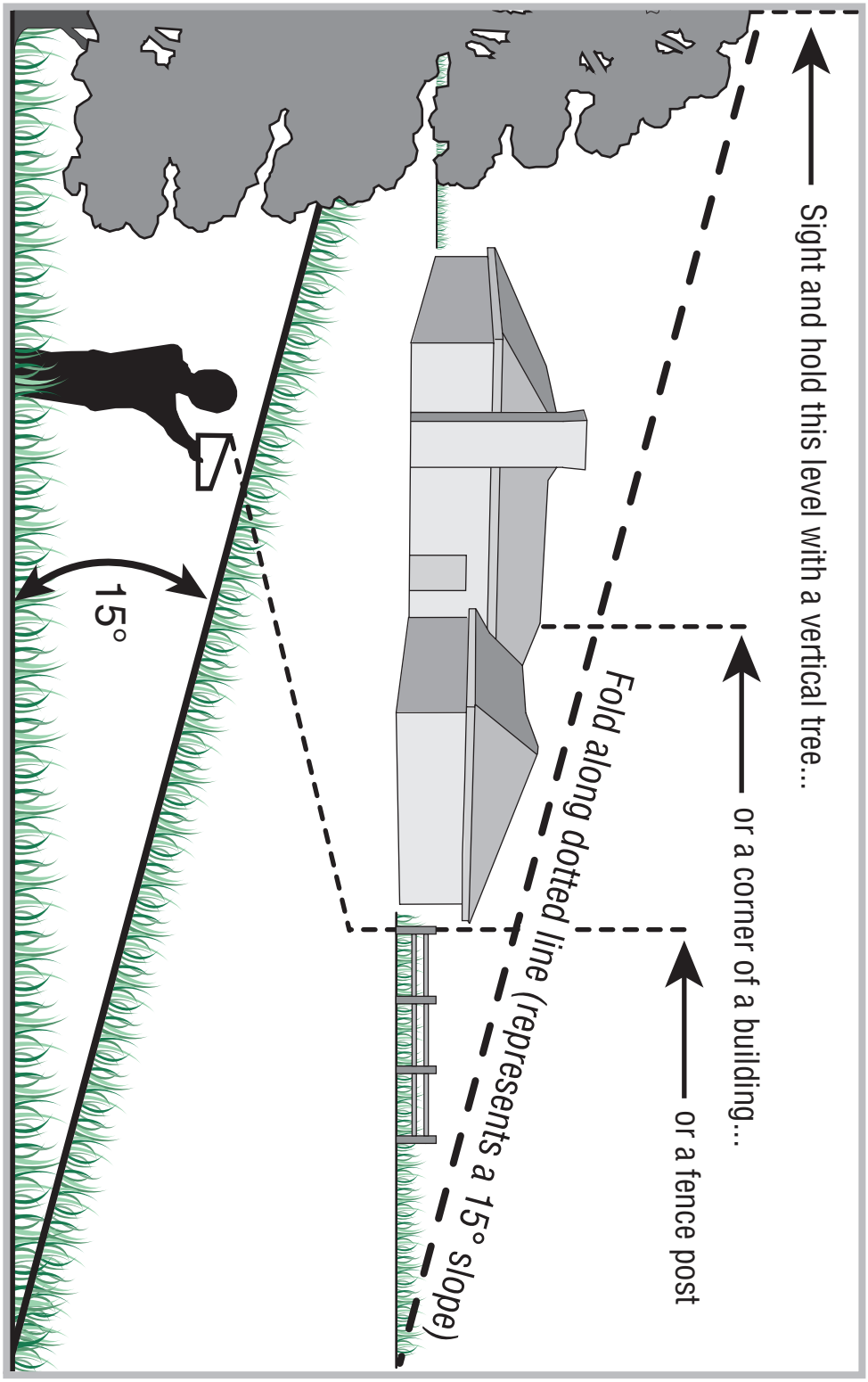
Instructional labels found on your garden tractor are illustrated below (3/4 actual size). Always follow their instructions and heed their warnings. If you discover a label is scratched, damaged or missing, order a replacement immediately.





TO START
1. DISENGAGE BLADES/PTO, (POWER TAKE OFF)
2. ENGAGE THE TRACTOR'S PARKING BRAKE.
3. SET THROTTLE TO FAST "RABBIT" POSITION AND PULL CHOKE KNOB OUT.
4. TURN KEY TO START ENGINE. AFTER START RELEASE KEY & DEACTIVATE CHOKE.
OPERATING MODES
NORMAL MOWING
YOU MUST DISENGAGE BLADES/PTO, (POWER TAKE OFF) BEFORE TRAVELING IN REVERSE.
REVERSE CAUTION MODE
1. TURN KEY TO REVERSE CAUTION MODE POSITION.
2. DEPRESS REVERSE PUSH BUTTON. (RED INDICATOR LIGHT "ON")
WHEN RED LIGHT IS "ON" MACHINE CAN BE OPERATED IN REVERSE WITH MOWER BLADES ENGAGED.
IMPORTANT: MOWING IN REVERSE IS NOT RECOMMENDED.
3. AFTER RESUMING FORWARD OPERATION, RETURN KEY TO "NORMAL MOWING" POSITION.
NOTE: IN BOTH MODES, WHEN OPERATOR LEAVES SEAT, ENGINE WILL STOP UNLESS PARKING BRAKE IS SET AND BLADES ARE DISENGAGED.
PARKING BRAKE
DEPRESS BRAKE PEDAL, PUSH PARKING BRAKE LEVER DOWN AND RELEASE PEDAL TO LOCK
CRUISE CONTROL
DEPRESS SPEED CONTROL PEDAL TO DESIRED SPEED. PUSH CRUISE CONTROL LEVER DOWN AND RELEASE PEDAL. PRESS BRAKE OR SPEED CONTROL TO RELEASE
FORWARD
BRAKE PEDAL
REVERSE
DIRECTIONAL SPEED CONTROL PEDAL

SECTION 4: SLOPE GAUGE


Sight and hold this level with a vertical tree...
or a corner of a building...
or a fence post
Fold along dotted line (represents a 15° slope)
15°

SECTION 5: TRACTOR SET-UP

Gas and Oil Fill-up

Use only clean, fresh (under 30 days old), unleaded gasoline. Fill tank to no more than 1/2 inch below the top of the filler neck to allow space for fuel expansion.

WARNING: Use extreme care when handling gasoline. Gasoline is extremely flammable and the vapors are explosive. Never fuel machine indoors or while the engine is hot or running. Extinguish cigarettes, cigars, pipes, and other sources of ignition before filling the fuel tank.

Service the engine with gasoline and oil as instructed in the separate engine manufacturer's Operator/Owner Manual packed with your tractor. Read instructions carefully.

Tire Pressure

WARNING: Maximum tire pressure under any circumstances is 30 psi. Equal tire pressure should be maintained at all times.

The tires on your unit may be over-inflated for shipping purposes. Reduce the tire pressure before operating the tractor. Recommended operating tire pressure is approximately 10 p.s.i for the rear tires & 14 p.s.i. for the front tires. Check sidewall of tire for maximum p.s.i.

Shipping Brace Removal

WARNING: Make sure the engine is off, set the parking brake and remove the ignition key before removing the shipping brace.

- Locate the shipping brace, if present, and warning tag found on the right side of the cutting deck.
- While holding the discharge chute with your left hand, remove the shipping brace with your right hand by grasping it between your thumb and index finger and rotating it clockwise.

WARNING: The shipping brace, used for packaging purposes only, must be removed and discarded before operating your tractor.

WARNING: The mowing deck is capable of throwing objects. Failure to operate the tractor without the discharge cover in the proper operating position could result in serious personal injury and/or property damage.

Attaching the Battery Cables

Tools Required

(1) 7/16" wrench

WARNING: California Proposition 65 Warning: Battery posts, terminals, and related accessories contain lead and lead compounds, chemicals known to the State of California to cause cancer and reproductive harm. *Wash hands after handling.*

NOTE: *Your tractor's battery cables may have already be attached at the factory.*

NOTE: *The positive battery terminal is marked Pos. (+). The negative battery terminal is marked Neg. (–).*

- The positive cable (heavy red wire) is secured to the positive battery terminal (+) with a hex bolt and hex nut at the factory. Make certain that the rubber boot covers the terminal to help protect it from corrosion.
- Remove the hex bolt and hex nut from the negative cable.
- Remove the black plastic cover, if present, from the negative battery terminal and attach the negative cable (heavy black wire) to the negative battery terminal (–) with the bolt and hex nut.
- Make certain the hold-down rod is in position over the battery, securing it in place. See Figure 1.

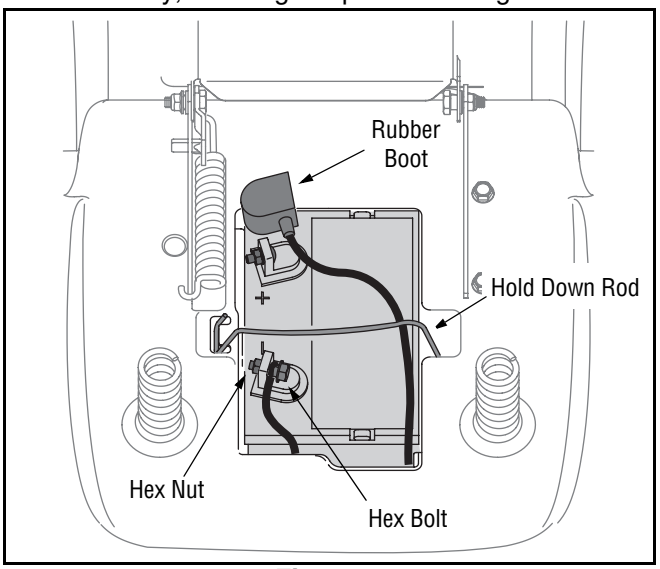


Figure 1

NOTE: *If the battery is put into service after the date shown on top/side of battery, charge the battery as instructed* on *page 27 of this manual prior to operating the tractor.*

Setting the Gauge Wheels and Roller

Gauge Wheels

Select the height position of the cutting deck by placing the deck lift lever in any of the six different cutting height notches on the right fender.

Adjust the deck wheels so that they are between ¼-inch and ½-inch above the ground as follows.

Place the tractor on a firm and level surface, preferably pavement, refer to Figure 2, and proceed as follows:

- Place the tractor's deck lift handle in the normally desired mowing height setting, then check the gauge wheels for contact or excessive clearance with the surface below.
- If the wheels contact the surface adjust as follows:
    a. Raise the deck lift handle to its highest setting.
    b. Remove the lock nuts and shoulder screws which secure the front gauge wheels to the deck.
    c. Place the deck lift handle in the desired mowing height setting.
    d. Insert the shoulder screw with the gauge wheel into the index hole that leaves approximately 1/2" between the bottom of the wheel and the pavement.
    e. Note the position of the index hole used; then install the other gauge wheel into the corresponding index hole of the other gauge wheel brackets.
- If the gauge wheels have excessive clearance with the surface below, lower the wheels to the index hole that provides the approximate 1/2" clearance as described above.

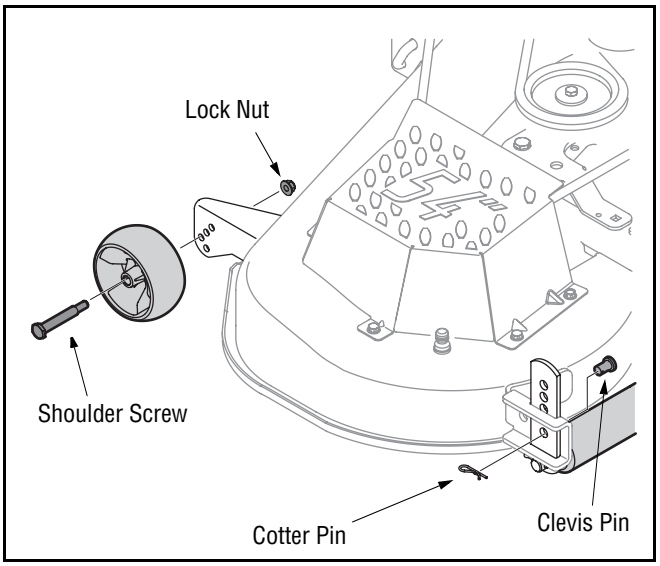


Figure 2

Roller (Model GT2300)

To adjust the height of the rollers found on the rear of the mowing deck upward or downward, proceed as follows:

- Place the deck lift lever in the lowest position.
- Remove the clevis pins and hairpin clips from the deck roller brackets on the left and right sides of the cutting deck. See Figure 2.
- Position the deck roller brackets up or down through the slots on the rear of the deck until desired position is reached, then re-attach with the clevis pins and hairpin clips just removed.

IMPORTANT: Be certain that the left roller bracket and the right roller bracket are set in the same position.

Refer to **Leveling the Deck** on page 19 of this manual for more detailed instructions regarding various deck adjustments.

SECTION 6: KNOW YOUR GARDEN TRACTOR

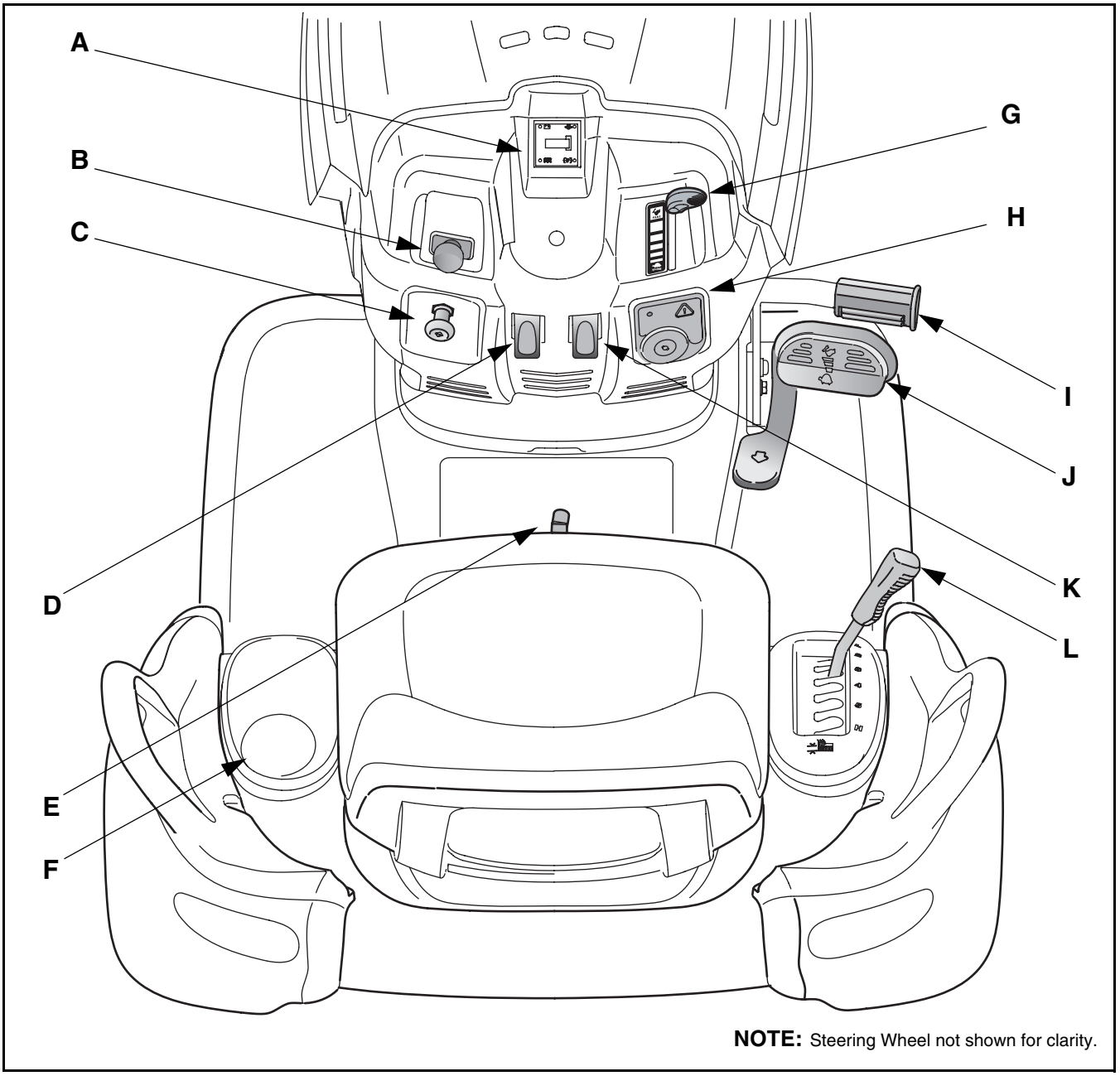


Figure 3

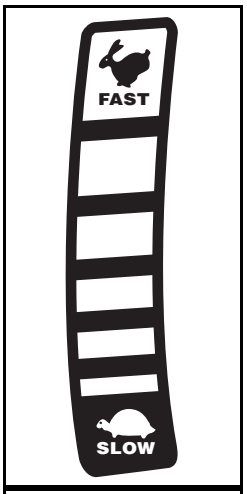
A	Systems Indicator Monitor/Hour Meter	**G**	Throttle Control
B	PTO (Blade Engage) Knob	**H**	Ignition Switch Module
C	Choke Control	**I**	Brake Pedal
D	Parking Brake Lever	**J**	Drive Pedal
E	Seat Adjustment Lever	**K**	Cruise Control Lever
F	Cup Holder	**L**	Deck Lift Lever

NOTE: *Any reference in this manual to the RIGHT or LEFT side of the tractor is observed from operator's position.*

Throttle Control

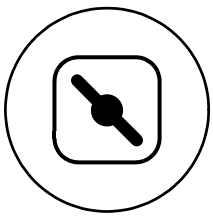
The throttle control lever is located on the right side of the tractor's dash panel. This lever controls the speed of the engine. When set in a given position, the throttle will maintain a uniform engine speed.

IMPORTANT: When operating the tractor with the cutting deck engaged, be certain that the throttle lever is **always** in the FAST (rabbit) position.



Choke Control

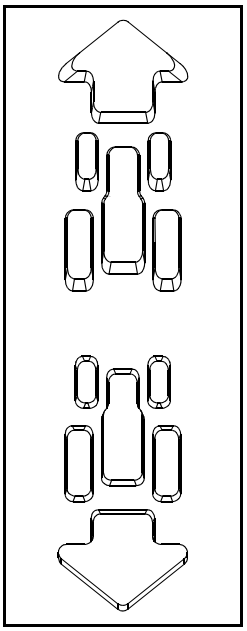
The choke control can be found on the left side of the dash panel and is activated by pulling the knob outward. Activating the choke control closes the choke plate on the carburetor and aids in starting the engine. Refer to **Starting The Engine** on page 16 of this manual for detailed starting instructions.



Drive Pedal

The drive pedal is located on the right side of the tractor, along the running board. Depress the upper portion of the drive pedal forward to cause the tractor to travel forward. Depress the lower portion of the drive pedal with the ball of your right foot (NOT your heel) to cause the tractor to travel in reverse. Ground speed is also controlled with the drive pedal. The further forward or rearward that the pedal is pivoted, the faster the tractor will travel. The pedal will return to its original position when it's not depressed.

IMPORTANT: Always set the parking brake when leaving the tractor unattended.



Seat Adjustment Lever

Located on the front of the seat bracket, the operator can move this lever to the left and slide the seat forward or rearward to adjust the position of the seat.

Brake Pedal

The brake pedal is located on the right front side of the tractor above the drive pedal along the running board. The brake pedal can be used for sudden stops or setting the parking brake.

NOTE: *The brake pedal must be fully depressed when starting the tractor.*

Deck Lift Lever

Found on your tractor's right fender, the deck lift lever is used to change the height of the cutting deck. To use, move the lever to the left, then place in the notch best suited for your application.

Ignition Switch Module

WARNING: Never leave a running machine unattended. Always disengage PTO, set parking brake, stop engine and remove key to prevent unintended starting.

To start the engine, insert the key into the ignition switch and turn clockwise to the **START** position. Release the key into the **NORMAL MOWING MODE** position once the engine has fired.

To stop the engine, turn the ignition key counterclockwise to the **STOP** position. See Figure 4.

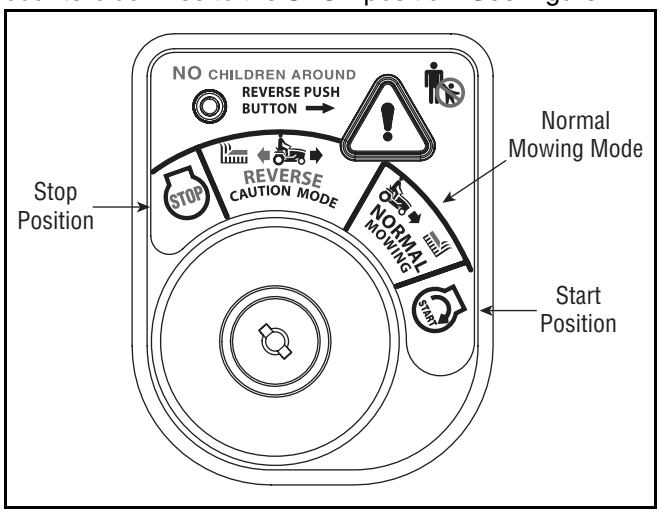
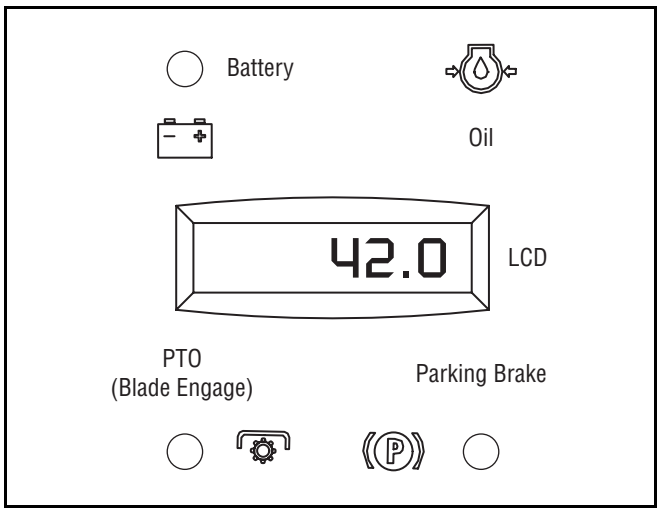


Figure 4

IMPORTANT: Prior to operating the tractor, refer to both **Safety Interlock Switches** on page 15 and **Starting The Engine** on page 16 of this manual for detailed instructions regarding the Ignition Switch Module and operating the tractor in **REVERSE CAUTION MODE**.

Systems Indicator Monitor / Hour Meter



LCD

Located in the center of the tractor's console, the systems indicator monitor records, and displays on its LCD, hours of tractor operation whenever the ignition key is rotated out of the STOP position.

The Indicator Monitor will also remind the operator of maintenance intervals for changing the engine oil. The LCD will alternately flash the recorded hours, "CHG" and "OIL" for five minutes, after every 50 hours of recorded operation elapse. The maintenance interval lasts for two hours (from 50-52, 100-102, 150-152, etc.). The LCD will also flash as described above for five minutes every time the tractor's engine has been started during this maintenance interval. Before the interval expires, change the crankcase oil level as instructed in the **MAINTENANCE** section of this manual.

Brake

If the Brake light illuminates when attempting to start the tractor's engine, depress the brake pedal.

PTO (Blade Engage)

If the PTO light illuminates when attempting to start the tractor's engine, move the PTO knob into the disengaged (OFF) position.

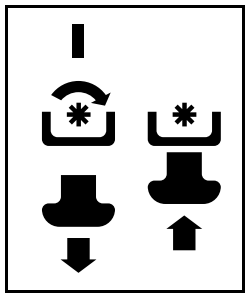
Oil

It is normal for the Oil light to illuminate while the engine is **cranking** during start-up, but if it illuminate's during operation, **while the engine is running**, stop the tractor immediately and check the crankcase oil level as instructed in the **MAINTENANCE** section of this manual.

Battery

It is normal for the Battery light to illuminate while the engine is **cranking** during start-up, but if it illuminate's during operation, **while the engine is running**, the battery is in need of a charge or the engine's charging system is not generating sufficient amperage. Refer to the **MAINTENANCE** section of this manual for the proper battery charging procedure or have the charging system checked by an authorized *Toro* Service Dealer.

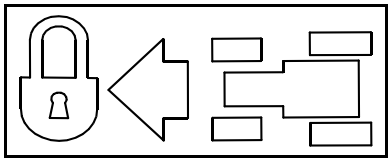
Electric PTO / Blade Engage Knob



To engage the power to the cutting deck or other (separately available) attachments, pull outward on the PTO/Blade Engage knob. Push the PTO/ Blade Engage knob inward to disengage the power to the cutting deck or other (separately available) attachments.

NOTE: *The PTO/Blade Engage knob **must** be in the disengaged (OFF) position when starting the engine.*

Cruise Control Lever

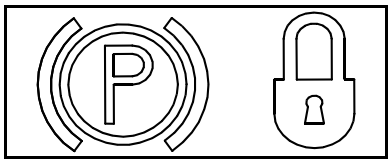


The cruise control lever is located on the tractor dash panel, below the steering wheel. Push the cruise control lever downward while traveling forward at a desired speed. While holding the lever down, release pressure from the drive pedal.

This will engage the cruise control and allow the tractor to remain at that speed without applying pressure to the drive pedal. Depress the brake pedal or the drive pedal to deactivate cruise control. Refer to page 17 for detailed instructions regarding cruise control.

NOTE: *Cruise control can NOT be engaged at the tractor's fastest ground speed. If the operator should attempt to do so, the tractor will automatically decelerate to the fastest optimal mowing ground speed.*

Parking Brake Lever



To set the parking brake, fully depress the brake pedal and push the parking brake lever down. Hold the lever down while taking your foot off the brake pedal. Both the parking lever and the brake pedal will then stay depressed. To release the parking brake, depress the brake pedal slightly. The parking brake lever will then return to its original position.

IMPORTANT: Always set the parking brake when leaving the tractor unattended.

SECTION 7: OPERATING YOUR GARDEN TRACTOR

Safety Interlock System

This tractor is equipped with a safety interlock system for the protection of the operator. Before each use, check the safety interlock system for proper operation. If the interlock system should ever malfunction, do not operate the tractor. Contact a *Toro* service dealer.

- The safety interlock system prevents the engine from cranking or starting unless the parking brake is engaged, and the PTO (Blade Engage) knob is in the disengaged (OFF) position. To check for proper operation, move the PTO (Blade Engage) knob into the engaged (ON) position and release the parking brake. Attempts to start the tractor's engine should fail.
- The engine will automatically shut off if the operator leaves the seat before engaging the parking brake. To check for proper operation, start the tractor's engine, release the parking brake and momentarily raise yourself from the seat. The engine should stall.
- The engine will automatically shut off if the operator leaves the tractor's seat with the PTO (Blade Engage) knob in the engaged (ON) position, regardless of whether the parking brake is engaged. To check for proper operation, start the tractor's engine, move the PTO (Blade Engage) knob in the engaged (ON) position and momentarily raise yourself from the seat. The engine should stall.
- With the ignition key in the **NORMAL MOWING** position, the PTO clutch will automatically shut off if the PTO (Blade Engage) knob is moved into the engaged (ON) position with the drive pedal in position for Reverse travel. To check for proper operation, start the tractor's engine with the ignition key in the **NORMAL MOWING** position, move the PTO (Blade Engage) knob in the engaged (ON) position and place the the drive pedal in position for Reverse travel. The cutting deck should disengage.

WARNING: Do not operate the tractor if the interlock system is malfunctioning. This system was designed for your safety and protection.

Reverse Caution Mode

The **REVERSE CAUTION MODE** position of the key switch module allows the tractor to be operated in reverse with the blades (PTO) engaged.

IMPORTANT: *Mowing in reverse is not recommended.*

WARNING: Use extreme caution while operating the tractor in the **REVERSE CAUTION MODE.** Always look down and behind before and while backing. Do not operate the tractor when children or others are around. Stop the tractor immediately if someone enters the area.

To use the **REVERSE CAUTION MODE**:

IMPORTANT: *The operator MUST be seated in the tractor seat.*

1. Start the engine as previously instructed in this Operator's Manual.
2. Turn the key from the **NORMAL MOWING** (Green) position to the **REVERSE CAUTION MODE** (Yellow) position of the key switch module. See Figure 5.
3. Depress the **REVERSE PUSH BUTTON** (Orange, Triangular Button) at the top, right corner of the key switch module. The red indicator light at the top, left corner of the key switch module will be **ON** while activated. See Figure 5.
4. Once activated (indicator light **ON**), the tractor can be driven in reverse with the cutting blades (PTO) engaged.
5. Always look down and behind before and while backing to make sure no children are around.
6. After resuming forward motion, return the key to the **NORMAL MOWING** position.

IMPORTANT: The **REVERSE CAUTION MODE** will remain activated until:

a. The key is placed in either the **NORMAL MOWING** position or **STOP** position.
b. The operator leaves the seat.

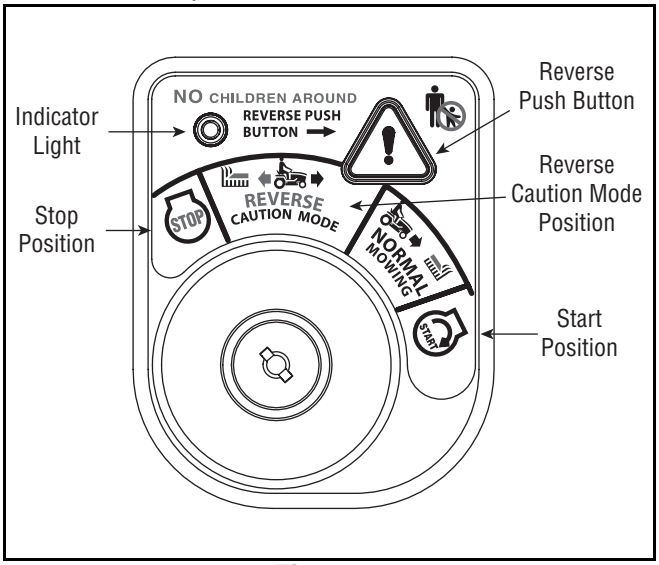


Figure 5

Starting the Engine

WARNING: Do not operate the tractor if the interlock system is malfunctioning. This system was designed for your safety and protection.

NOTE: *Refer to the* **TRACTOR SET-UP** *on page 10 of this manual for Gasoline and Oil fill-up instructions.*

- Insert the tractor key into the ignition switch module.
- Place the PTO (Blade Engage) knob in the disengaged (OFF) position.
- Engage the tractor's parking brake.
- Activate the choke control.
- Turn the ignition key clockwise to the START position. After the engine starts, release the key. It will return to the **NORMAL MOWING** position.

IMPORTANT: Do NOT hold the key in the START position for longer than ten seconds at a time. Doing so may cause damage to your engine's electric starter.

- After the engine starts, deactivate the choke control.

NOTE: *Do NOT leave the choke control on while operating the tractor. Doing so will result in a "rich" fuel mixture and cause the engine to run poorly.*

Stopping the Engine

WARNING: If you strike a foreign object, stop the engine and remove the key. Thoroughly inspect the machine for any damage. Repair the damage before restarting and operating

- If the blades are engaged, place the PTO/Blade Engage knob in the disengaged (OFF) position.
- Position the throttle/choke control between half-throttle and the FAST (rabbit) position
- Turn the ignition key counterclockwise to the STOP position.
- Remove the key from the ignition switch to prevent unintended starting.

Using the Deck Lift Lever

To raise the cutting deck, move the deck lift lever to the left, then place it in the notch best suited for your application. Refer to **Setting The Cutting Height** earlier in this section.

Driving The Tractor

WARNING: Avoid sudden starts, excessive speed and sudden stops.

WARNING: Do not leave the seat of the tractor without first placing the PTO/Blade Engage knob in the disengaged (OFF) position, depressing the brake pedal and engaging the parking brake. If leaving the tractor unattended, also turn the ignition key off and remove the key.

- Briefly depress the brake pedal to release the parking brake. Move the throttle lever into the FAST (rabbit) position.
- To travel FORWARD, slowly depress the upper portion of the drive pedal forward until the desired speed is achieved. See Figure 6.

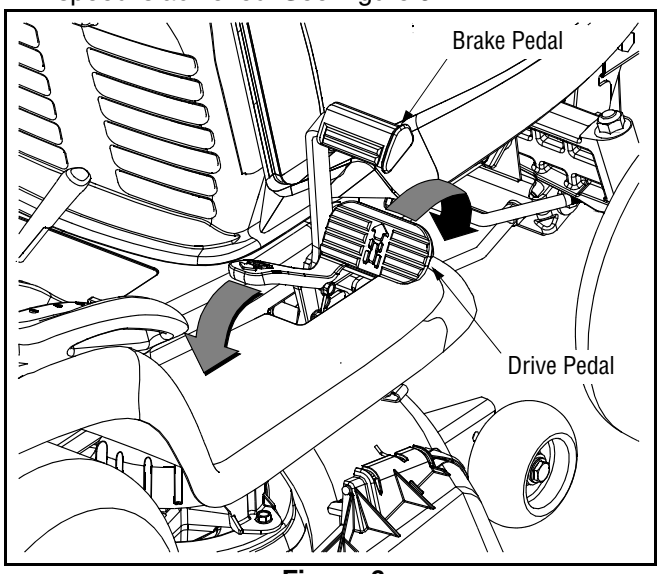


Figure 6

- To travel in REVERSE, check that the area behind is clear then slowly depress the lower portion of the drive pedal with the ball of your foot (NOT your heel) until the desired speed is achieved. See Figure 6.

IMPORTANT: Do NOT attempt to change the direction of travel when the tractor is in motion. Always bring the tractor to a **complete** stop before pivoting the drive pedal from forward to reverse or vice versa.

Driving On Slopes

Refer to the **SLOPE GAUGE** on page 9 to help determine slopes where you may operate the tractor safely.

WARNING: Do not mow on inclines with a slope in excess of 15 degrees (a rise of approximately 2-1/2 feet every 10 feet). The tractor could overturn and cause serious injury.

- Mow up and down slopes, NEVER across.
- Exercise extreme caution when changing direction on slopes.
- Watch for holes, ruts, bumps, rocks, or other hidden objects. Uneven terrain could overturn the machine. Tall grass can hide obstacles.
- Avoid turns when driving on a slope. If a turn must be made, turn down the slope. Turning up a slope greatly increases the chance of a roll over.
- Avoid stopping when driving up a slope. If it is necessary to stop while driving up a slope, start up smoothly and carefully to reduce the possibility of flipping the tractor over backward.

Setting The Cruise Control

NOTE: *The cruise control feature should only be utilized while traveling in the forward direction.*

- Slowly depress the drive pedal until the desired speed is achieved.
- Lightly depress the cruise control lever.
- While continuing to hold the cruise lever down, lift your foot from the drive pedal (you should feel the cruise latch engage).
- Once engaged, the cruise control lever and the drive pedal will lock in the “down” position, and the tractor will maintain the same forward speed.

NOTE: *Cruise control can not be set at the tractor’s fastest ground speed. If the operator should attempt to do so, the tractor will automatically decelerate to the fastest optimal mowing ground speed.*

To disengage the cruise control, either:

- Depress the brake pedal to disengage the cruise control and stop the tractor.
- Lightly depress the drive pedal.

To change to the reverse direction when operating with cruise control, depress the brake pedal to disengage the cruise control and bring the tractor to a complete stop.

Engaging the Parking Brake

To engage the parking brake:

- Fully depress the brake pedal and hold it while gently pushing the parking brake lever downward.
- Hold the parking brake lever down while removing your foot from the brake pedal.
- Once engaged, the parking brake lever and the brake pedal will lock in the “down” position.

To disengage the parking brake:

- Slightly depress the brake pedal.

NOTE: *The parking brake must be engaged if the operator leaves the seat with the engine running or the engine will automatically shut off.*

Moving The Tractor Manually

Your tractor’s transmission is equipped with a hydrostatic relief valve for occasions when it is necessary to move the tractor manually. Opening this valve permits the fluid in the transmission to bypass its normal route, allowing the rear tires to "freewheel." To open the hydrostatic relief valve, proceed as follows:

- Locate the hydrostatic bypass rod in the rear of the tractor. See Figure 7.

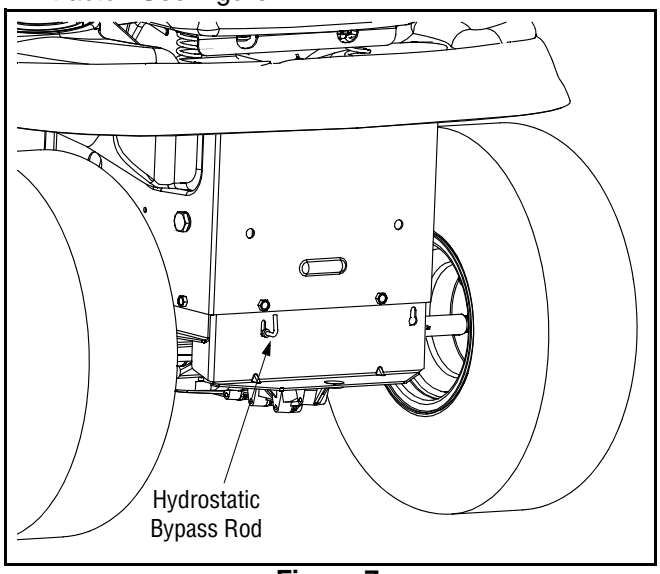


Figure 7

- Pull the hydrostatic bypass rod outward, then up, to lock it in place.

NOTE: *The transmission will NOT engage when the hydrostatic bypass rod is pulled out. Return the rod to its normal position prior to operating the tractor.*

IMPORTANT: Never attempt to move the tractor manually without first opening the hydrostatic relief valve. Doing so will result in serious damage to the tractor’s transmission.

Engaging the PTO (Blades)

Engaging the PTO transfers power to the cutting deck or other (separately available) attachments. To engage the PTO, proceed as follows:

- Move the throttle control lever to the FAST (rabbit) position.
- Pull the PTO/Blade Engage knob outward into the engaged (ON) position. See Figure 8.
- Keep the throttle lever in the FAST (rabbit) position for the most efficient use of the cutting deck or other (separately available) attachments.

IMPORTANT: With the ignition key in the **NORMAL MOWING** position, the PTO clutch will automatically shut off if the PTO (Blade Engage) knob is moved into the engaged (ON) position with the the drive pedal in position for Reverse travel. Refer to **Safety Interlock Switches** on page 15.

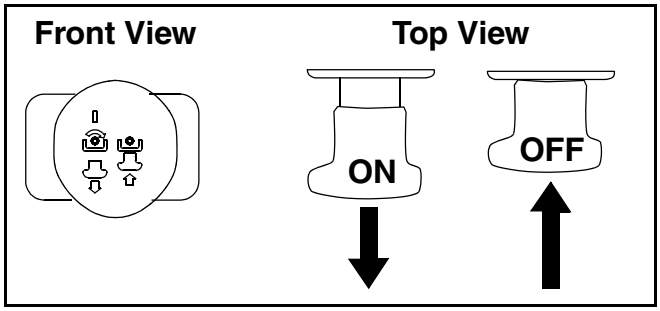


Figure 8

Mowing

WARNING: To help avoid blade contact or a thrown object injury, keep bystanders, helpers, children and pets at least 75 feet from the machine while it is in operation. Stop machine if anyone enters the area.

This tractor is equipped with one of *Toro*'s quality cutting decks. The following information will be helpful when using the cutting deck with your tractor.

WARNING: Plan your mowing pattern to avoid discharge of materials toward roads, sidewalks, bystanders and the like. Also, avoid discharging material against a wall or obstruction which may cause discharged material to ricochet back toward the operator.

- Do not mow at high ground speed, especially if a mulch kit or grass collector is installed.
- For best results it is recommended that the first two laps be cut with the discharge thrown towards the center. After the first two laps, reverse the direction to throw the discharge to the outside for the balance of cutting. This will give a better appearance to the lawn.
- Do not cut the grass too short. Short grass invites weed growth and yellows quickly in dry weather.
- Mowing should always be done with the engine at full throttle.
- Under heavier conditions it may be necessary to go back over the cut area a second time to get a clean cut.
- Do NOT attempt to mow heavy brush and weeds and extremely tall grass. Your tractor is designed to mow lawns, NOT clear brush.
- Keep the blades sharp and replace the blades when worn. Refer to **Cutting Blades** on page 26 of this manual for proper blade sharpening instructions.

SECTION 8: MAKING ADJUSTMENTS

WARNING: Never attempt to make any adjustments while the engine is running,

Leveling the Deck

NOTE: *Check the tractor's tire pressure before performing any deck leveling adjustments. Refer to* **Tires** *on page 26 for information regarding tire pressure.*

Front To Rear

The front of the cutting deck is supported by a stabilizer bar that can adjusted to level the deck from front to rear. The front of the deck should be between 1/4-inch and 3/8-inch lower than the rear of the deck. Adjust if necessary as follows:

- With the tractor parked on a firm, level surface, place the deck lift lever in the top notch (highest position) and rotate the blade nearest the discharge chute so that it is parallel with the tractor.
- Measure the distance from the front of the blade tip to the ground and the rear of the blade tip to the ground.
- The first measurement taken should be between 1/4" and 3/8" less than the second measurement.
- Determine the approximate distance necessary for proper adjustment and proceed, if necessary, to the next step.
- From the front of the tractor, loosen the outermost hex lock nut on the end of the deck hanger rod. See Figure 9.
- Tighten the inner hex nut front against the front hanger bracket to raise the front of the deck; loosen the hex nut to lower the front of the deck. See Figure 9.

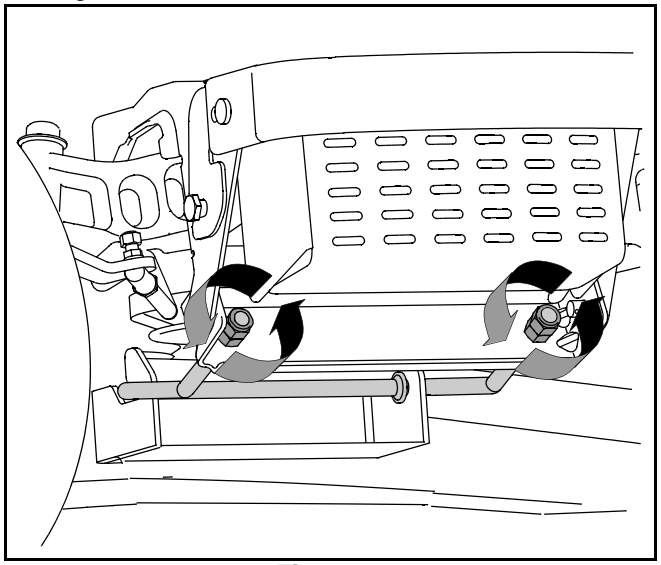


Figure 9

- Retighten the two lock nuts against the inner hex nuts when proper adjustment is achieved.

Side to Side

If the cutting deck appears to be mowing unevenly, a side to side adjustment can be performed. Adjust if necessary as follows:

- With the tractor parked on a firm, level surface, place the deck lift lever in the top notch (highest position) and rotate both blades so that they are perpendicular with the tractor.
- Measure the distance from the outside of the left blade tip to the ground and the distance from the outside of the right blade tip to the ground. Both measurements taken should be equal. If they're not, proceed to the next step.
- Loosen, but do NOT remove, the hex bolt on the left deck hanger bracket. See Figure 10.

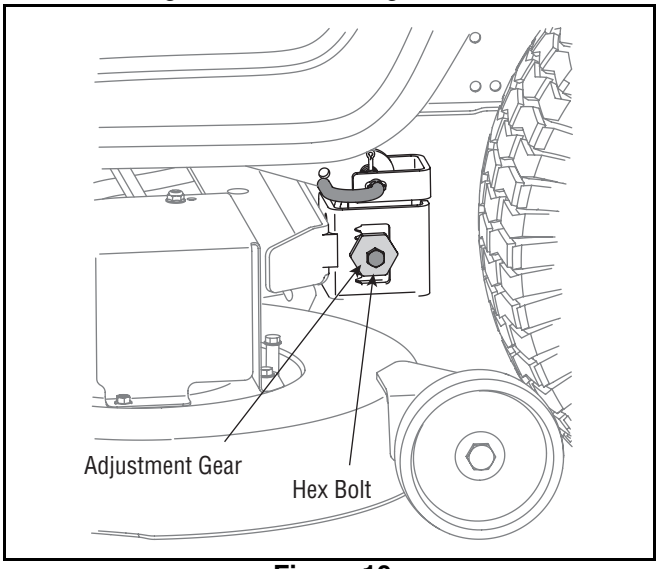


Figure 10

- Balance the deck by using a wrench to turn the adjustment gear (See Figure 10) up or down.
- The deck is properly balanced when both blade tip measurements taken earlier are equal.
- Retighten the hex bolt on the left deck hanger bracket when proper adjustment is achieved.

Seat Adjustment

WARNING: Before operating this machine, make sure the seat is engaged in the seat stop. Stand behind the machine and pull back on seat until fully engaged into stop.

To adjust the position of the seat, move the lever to the left and slide the seat forward or rearward. Make sure seat is locked into position before operating the tractor.

Parking Brake Adjustment

WARNING: Never attempt to adjust the brakes while the engine is running. Always disengage PTO, stop engine and remove key to prevent unintended starting.

If the tractor does not come to a complete stop when the brake pedal is completely depressed, or if the tractor's rear wheels can roll with the parking brake applied, the brake is in need of adjustment. The brake disc can be found on the right side of the transmission in the rear of the tractor. Adjust if necessary as follows:

NOTE: *Have a replacement cotter pin on hand before beginning this adjustment.*

- Looking at the transmission from the right side of the tractor, locate the brake puck and brake disc. See Figure 11.

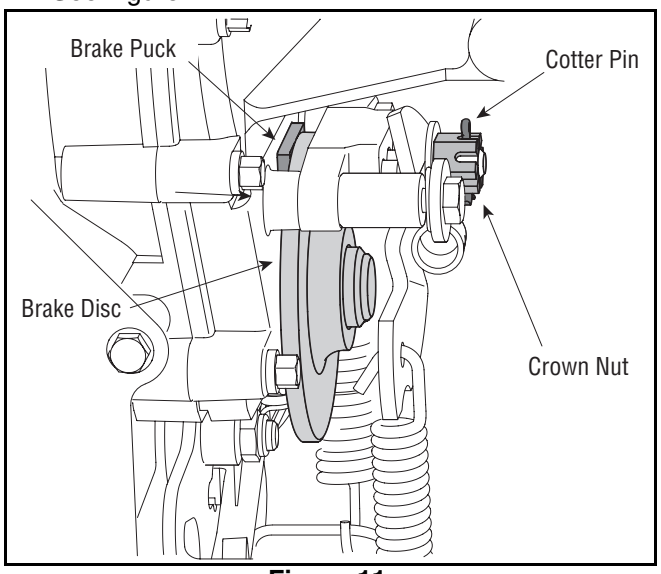


Figure 11

- Remove and discard the cotter pin which secures the crown nut to the assembly. See Figure 11.
- Loosen, but do NOT remove, the crown nut found on the right side of the brake assembly.
- Insert a feeler gauge (set at .011") between the brake disc and the brake puck.

NOTE: *If a feeler gauge is unavailable, a typical business card is approximately .011" thick.*

- Retighten the crown nut loosened earlier, leaving a .011" gap between the brake disc and the brake puck.
- Insert a new cotter pin to secure the crown nut in place. Do NOT reuse the old cotter pin.

Steering Adjustment

If the tractor turns tighter in one direction than the other, or if the ball joints are being replaced due to damage or wear, the steering drag links may need to be adjusted.

Adjust the drag links so that equal lengths are threaded into the ball joint on the left side and the ball joint on the right side:

- Loosen the jam nut found on the drag link at the rear of the ball joint. See Figure 12.

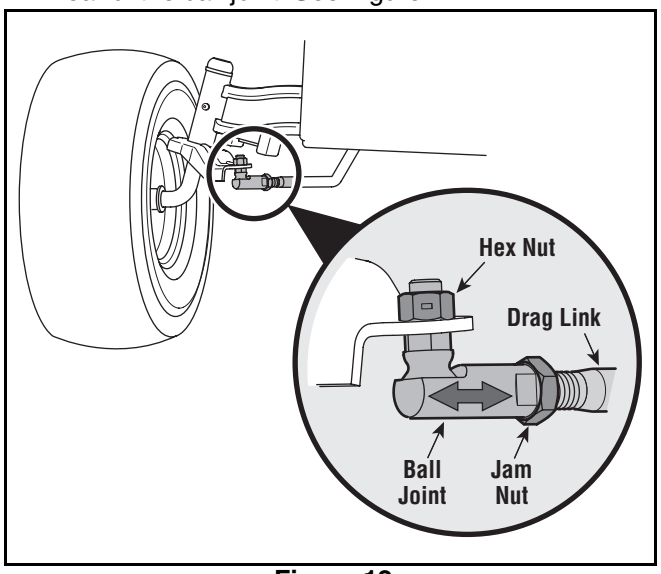


Figure 12

- Remove the hex nut on the top of ball joint. See Figure 12.
- Thread the ball joint toward the jam nut to shorten the drag link. Thread the ball joint away from the jam nut to lengthen the drag link.
- Replace hex nut and lock washer and retighten the jam nut after proper adjustment is achieved.

NOTE: *Threading the ball joints too far onto the drag links will cause the front tires to "toe-in" too far. Proper toe-in is between 1/16" and 5/16".*

Front tire toe-in can be measured as follows:

- Place the steering wheel in position for straight ahead travel.
- In front of the axle, measure the distance horizontally from the inside of the left rim to the inside of the right rim. Note the distance.
- Behind the axle, measure the distance horizontally from the inside of the left rim to the inside of the right rim. Note the distance.
- The measurement taken in front of the axle should be between 1/16" and 5/16" less than the measurement taken behind the axle.
- Adjust if necessary.

SECTION 9: MAINTAINING YOUR GARDEN TRACTOR

NOTE: *Refer to* **Maintenance Chart** *on page 31 for a reference of recommended maintenance intervals.*

WARNING: Before performing any maintenance or repairs, disengage PTO, set parking brake, stop engine and remove key to prevent unintended starting.

Engine

Maintenance, repair, or replacement of the emission control devices and systems, which are being done at the customer's expense, may be performed by any engine repair establishment or individual. **Warranty repairs must be performed by a *Toro* Dealer.**

Engine Oil

The engine-crankcase is filled with 10W-30 *ship-away* oil at the factory. This oil may be used for the first 24 hours of engine operation at temperatures between 0°F and 80°F. If temperatures are not within this range, drain the oil from the oil filter and crankcase and replace with new oil.

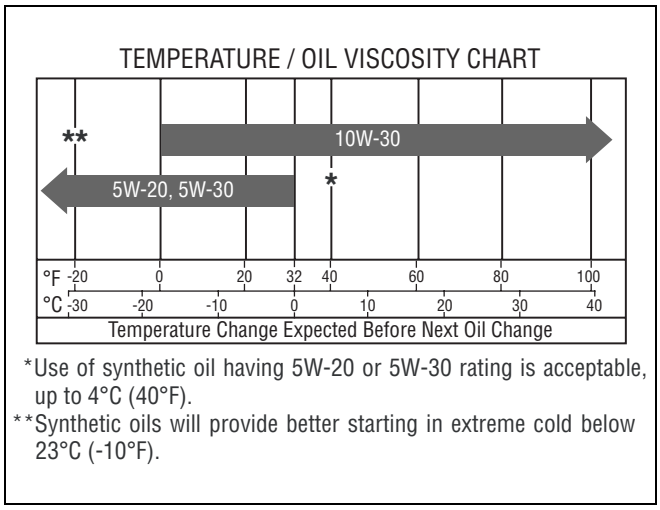
The engine oil must be drained and replaced with new oil after the initial 24 hours of engine operation and every 50 hours thereafter. Refer to the Oil Viscosity Chart to determine the proper oil type.

NOTE: *To aid starting, the selection of crankcase oil should be based on the lowest anticipated temperatures prior to the next scheduled oil change.*

Checking the Oil Level

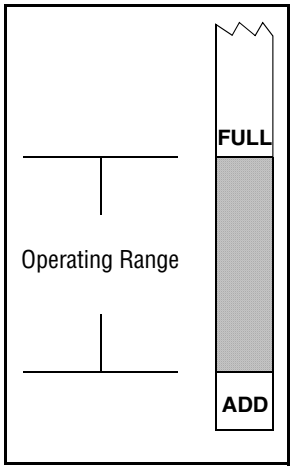
It is important to check the oil level at least every four hours of operation. Regular checking during the first 24 hours of operation is especially important. Check the oil level **before each use** as follows:

- Allow the engine a few minutes to rest after operation. This will give the oil time to drain into the crankcase sump and result in a more accurate dipstick reading.
- Clean the area around the oil fill cap/dipstick to prevent debris from entering the crankcase.
- Remove the oil fill cap/dipstick by twisting it out of the oil fill tube.
- Wipe the dipstick clean before inserting it all the way back into the oil fill tube. Withdraw the dipstick to check the oil level. Refer to figure at right.
- Always keep the oil level at or near the FULL mark on the dipstick. If the oil is low, add oil of the proper type up to the FULL mark. Always re-check the oil level with the dipstick before adding more oil.


TEMPERATURE / OIL VISCOSITY CHART
**
10W-30
5W-20, 5W-30
*
°F -20 0 20 32 40 60 80 100
°C -30 -20 -10 0 10 20 30 40
Temperature Change Expected Before Next Oil Change

*Use of synthetic oil having 5W-20 or 5W-30 rating is acceptable, up to 4°C (40°F).

**Synthetic oils will provide better starting in extreme cold below 23°C (-10°F).



IMPORTANT: Never operate the engine with the oil level below the ADD mark or above the FULL mark on the dipstick.

- After checking the oil level (and adding oil, if necessary), reinstall the oil fill cap/dipstick by inserting it into the oil fill tube.

Adding Oil

If, after checking the oil level, you find the dipstick reads ADD, proceed as follows.

- Place the tractor on a level surface and engage the parking brake. Stop the tractor engine and remove the ignition key.
- Clean the area around the oil fill cap and fill tube to prevent debris from entering the crankcase.
- Remove the oil fill cap/dipstick from the oil fill tube and SLOWLY pour oil into the oil fill tube. Do NOT pour more than 6 oz. of oil at a time without first stopping and re-checking the oil level.
- Fill the crankcase until the oil level reaches the full (**F**) mark on the dipstick. See Figure above. Refer to the oil viscosity chart earlier in this section for information regarding the proper type of oil to add to the crankcase.

IMPORTANT: The engine (with oil filter) has a capacity of 57.5 oz. (1.7 liters). Never overfill the engine crankcase.

IMPORTANT: The engine may overheat and/or damage may result if the oil level is below the ADD or over the FULL on the dipstick.

- Reinstall the oil fill cap/dipstick securely onto the oil fill tube.

IMPORTANT: The oil fill cap/dipstick **must be installed securely onto the tube at all times when the engine is operating**. Severe engine damage could result from failure to do so.

Changing the Engine Oil

The engine oil and oil filter should be changed after the first 24 hours of operation, and after every 50 hours of operation thereafter.

WARNING: If the engine has been recently run, the engine, muffler and surrounding metal surfaces will be hot and can cause burns to the skin. Allow the tractor to cool and use caution when removing

IMPORTANT: The oil filter should be changed at every oil change interval.

To complete an oil change, proceed as follows:

Draining the Oil

Run the engine for a few minutes to allow the oil in the crankcase to warm up. Warm oil will flow more freely and carry away more of the engine sediment which may have settled at the bottom of the crankcase. Use care to avoid burns from hot oil.

- Pop open the protective cap on the end of the oil drain valve to expose the drain port. See Figure 13
- Remove the oil fill cap/ dipstick from the oil fill tube.
- Push the oil drain hose (packed with this manual) onto the oil drain port. Route the opposite end of the hose into an appropriate oil collection container with a capacity great enough to collect the used oil (approximately 2.5 liters).
- Push the oil drain valve in slightly, then rotate counterclockwise and pull outward to begin draining oil.
- After the oil has finished draining, push the oil drain valve back in, rotate it clockwise to lock the valve closed and re-cap the end of the oil drain valve to keep debris from entering the drain port.

IMPORTANT: Always change the oil filter when performing an oil change on your tractor's engine.

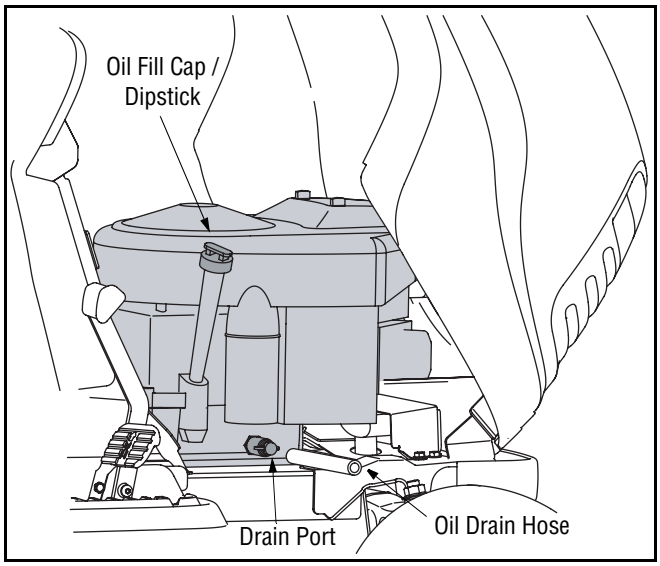


Figure 13

Changing the Oil Filter

After draining the oil, proceed as follows:

- Before removing the old oil filter, clean around its base to prevent debris from entering the crankcase.
- Grasp the oil filter and remove it from the filter adapter by turning it counterclockwise.
- Place a new replacement filter in a shallow pan with the open end up and pour new oil (refer to viscosity chart on page 21) in through the threaded center hole.

IMPORTANT: Stop pouring when the oil reaches the bottom of the threads and allow a minute or two for the oil to be absorbed by the filter material.

- Put a drop of oil on your fingertip and apply a light coating to the gasket of the new oil filter.
- Install the replacement oil filter on the engine by turning it clockwise onto the filter adapter until the rubber gasket makes contact with the base. Tighten the filter an additional **1/2 turn** after the gasket first makes contact**.**

Re-filling the Crankcase with Oil

IMPORTANT: The engine (with oil filter) has a capacity of 57.5 oz (1.7 liters). Do NOT overfill. Always check the level on the dipstick as instructed on page 21 before adding more oil.

NOTE: *For the proper oil type, refer to the chart on page 21 of this manual.*

- Clean the area around the oil fill tube to prevent debris from entering the crankcase.
- **Slowly** pour oil into the fill tube. Fill the crankcase until the oil level reaches the full (**F**) mark on the dipstick (Refer to Page 21).
- Reinstall the oil fill cap/dipstick securely into the oil fill tube.

IMPORTANT: The oil fill cap/dipstick **must be installed securely onto the tube at all times when the engine is operating**. Severe engine damage could result from a failure to do so.

- Start the tractor engine and allow it to run for thirty seconds, then stop the engine and remove the ignition key.
- Check the oil level and add oil if necessary. **Do not overfill the engine crankcase**.
- Examine the area around the base of the oil fill tube, the oil filter adapter, and the oil drain valve for leaks before operating the tractor.

IMPORTANT: If leaks are present, have your engine serviced by a *Toro* dealer before operating the tractor.

Air Filter

The engine is equipped with a replaceable, high density paper air cleaner element and an oiled, foam precleaner. Always examine the air cleaner **before starting the engine.** Check for a buildup of dirt and debris around the air cleaner system. Keep this area clean. Also check for loose or damaged components. Replace all bent or damaged air cleaner components.

NOTE: *Starting the tractor with loose or damaged air cleaner components could allow unfiltered air into the engine causing premature wear and failure.*

Precleaner

Wash and re-oil the precleaner every **25 hours** of operation if equipped, (more often under extremely dusty or dirty conditions).

- Pivot the air cleaner cover upward and unhook the wire latch which secures the element in place.
- Remove the air cleaner element with precleaner.
- Remove the precleaner.
- Wash the precleaner in warm water with detergent. Rinse the precleaner thoroughly until all traces of detergent are eliminated. Squeeze out excess water (do not wring). Allow the precleaner to air dry.
- Saturate the precleaner with new engine oil. Squeeze out all excess oil.
- Reinstall the precleaner over the paper element.
- Reinstall the air cleaner cover.

Service Paper Element

The paper element should be replaced at least every **100 hours** of operation. Replace more frequently if the tractor is operated under extremely dusty conditions. To replace the paper element, proceed as follows:

- Pivot the air cleaner cover upward and unhook the wire latch which secures the element in place.
- Remove the air cleaner element with precleaner. Remove the precleaner from the element and service as instructed earlier in this section.

IMPORTANT: Do **not** wash the paper element or use pressurized air**,** as this will damage the element.

Examine the element and discard if dirt and/or damage is present.

NOTE: *Handle new elements carefully; do not use if the sealing surfaces are bent or damaged.*

- If any loose dirt or debris fell on the air cleaner base when the element was removed, carefully remove it and wipe the base clean. Be careful that none of it drops into the intake.
- Check the air cleaner base. Make sure it is secured and not damaged. Also check the air cleaner cover for damage or improper fit. Replace all damaged air cleaner components.
- Install the precleaner over the new paper element and reinstall the element.
- Lower the wire latch to secure the element in place and pivot the air cleaner cover downward.

Spark Plugs

Once a season, or after every **100 hours** of operation, remove the spark plugs, check condition, and reset the gap or replace with new plugs as necessary.

- Lift the tractor's hood and locate the spark plug wires on either side the engine.
- Carefully pull the spark plug wire boot off of each spark plug.
- Before removing each spark plug, clean the area around the base of the plug to keep dirt and debris out of the engine.
- Using a ratchet with a 5/8-inch spark plug socket, remove the spark plug and check its condition.
- Replace the plug if worn, dirty or damaged. Reuse only after resetting the gap as instructed.

NOTE: *Do not clean the spark plug in a machine using abrasive grit. Some grit could remain in the spark plug and enter the engine causing extensive wear and damage.*

- Check the gap using a feeler gauge and adjust, if necessary, by carefully bending the ground electrode. See Figure 14. Set the spark plug gap to 0.030 (.76 mm).

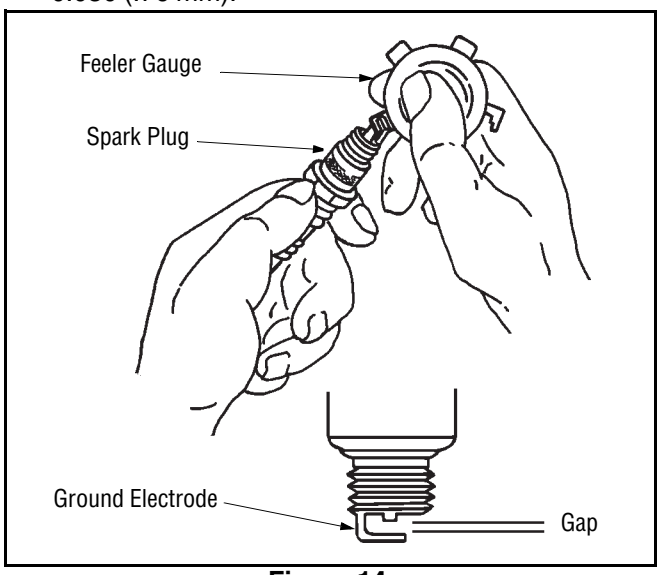


Figure 14

- Reinstall each spark plug into the cylinder head. Torque the spark plug to **28/32 ft. lb.**
- Place each spark plug wire boot over the spark plug and press until you feel it “click” in place.

Fuel Filter

WARNING: Do not replace the fuel filter when engine is hot.

The engine is equipped with an inline fuel filter located on the left side of the engine.

Visually inspect the filter periodically for a build-up of residue inside the filter body, and for a dirty element which can be indicated by discoloration. Replace the fuel filter when dirty.

Hydrostatic Transmission

Keep the area around the transmission cooling fan free of grass and debris at all times. The transmission is sealed at the factory and is maintenance free. The fluid level cannot be checked and cannot be changed.

Cleaning the Engine And Deck

Any fuel or oil spilled on the machine should be wiped off promptly.

Do NOT allow debris to accumulate around the cooling fins of the engine or on any other part of the machine, especially the belts and pulleys.

Deck Wash System (Model GT2300 Only)

Your tractor’s deck is equipped with a water port on its surface as part of its deck wash system.

Use the deck wash system to rinse grass clippings from the deck’s underside and prevent the buildup of corrosive chemicals. Complete the following steps AFTER EACH MOWING:

1. Drive the tractor to a level, clear spot on your lawn, near enough for your garden hose to reach.

IMPORTANT: Make certain the tractor’s discharge chute is directed AWAY from your house, garage, parked cars, etc.

2. Disengage the PTO (Blade Engage), set the parking brake and stop the engine.
3. Thread the hose coupler (packaged with your tractor’s Operator’s Manual) onto the end of your garden hose.
4. Attach the hose coupler to the water port on your decks surface. See Figure 15.

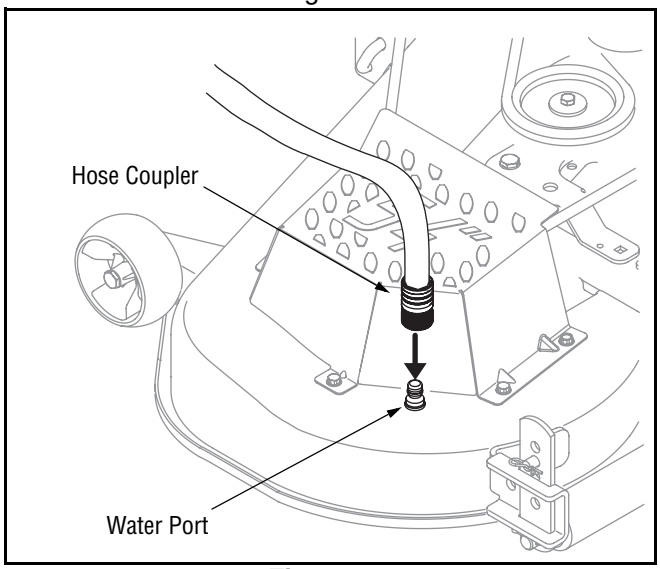


Figure 15

5. Turn the water on.
6. While sitting in the operator’s position on the tractor, start the engine and place the throttle lever in the FAST (rabbit) position.
7. Move the tractor’s PTO (Blade Engage) into the ON position.
8. **Remain in the operator’s position** with the cutting deck engaged for a minimum of two minutes, allowing the underside of the cutting deck to thoroughly rinse.
9. Move the tractor’s PTO (Blade Engage) into the OFF position.
10. Turn the ignition key to the STOP position to turn the tractor’s engine off.
11. Turn the water off and detach the hose coupler from the water port on your deck’s surface.
12. Repeat step 4- step 11 on the opposite side of the cutting deck.

Lubrication

WARNING: Before lubricating, repairing, or inspecting, always disengage PTO, set parking brake, stop engine and remove key to prevent unintended starting.

Engine

Refer to **Engine** on page 21 for instruction regarding all engine-related lubrication.

Front Wheels

Each of the front wheel axles and rims is equipped with a grease fitting. See Figure 16. Lubricate with 251H EP grease or an equivalent No. 2 multi-purpose lithium grease after every 25 hours of tractor operation.

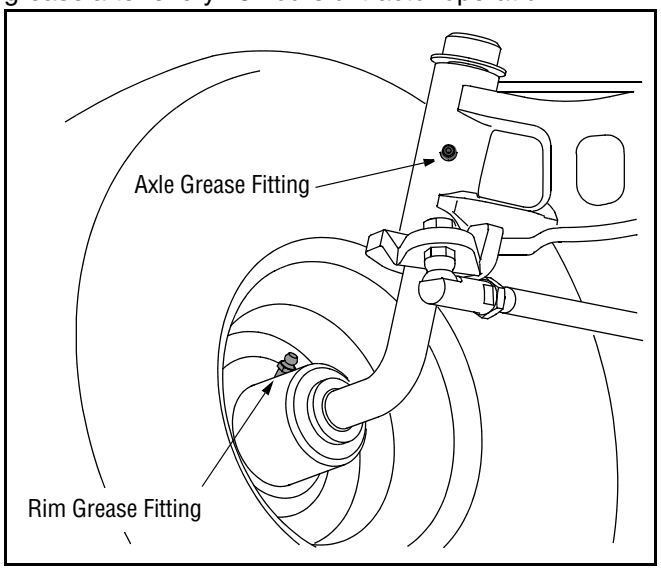


Figure 16

Pivot Points & Linkage

Lubricate all the pivot points on the drive system, parking brake and lift linkage at least once a season with light oil.

Deck Idler (Model GT2200 Only)

A grease fitting can be found on the pivoting idler bracket on the deck. Lubricate with a No. 2 multi-purpose grease applied with a grease gun after every 25 hours of tractor operation. See Figure 17.

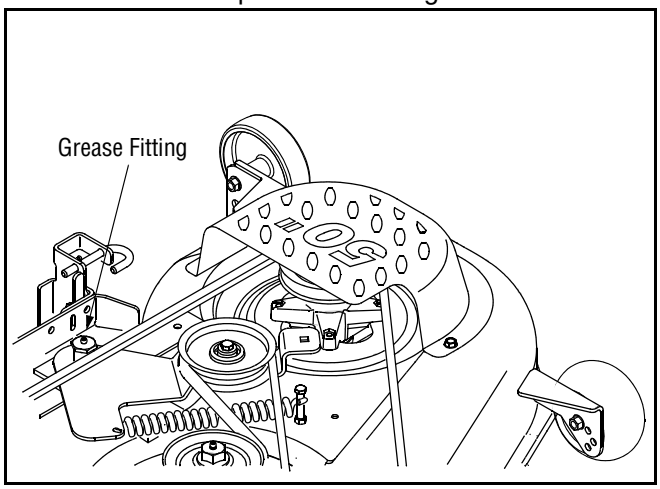


Figure 17

Deck Spindles

Grease fittings can be found on the front of each deck spindle. After every 25 hours of tractor operation, lubricate with 251H EP grease or an equivalent No. 2 multi-purpose lithium grease . Using a grease gun, apply two strokes (minimum) or sufficient grease to each spindle.

SECTION 10: SERVICE

WARNING: Before servicing, repairing, or inspecting, always disengage PTO, set parking brake, stop engine and remove key to prevent unintended starting.

Tires

WARNING: Never exceed the maximum inflation pressure shown on the sidewall of the tire.

The recommended operating tire pressure is approximately 10 psi for the rear tires and 14 psi for the front tires. Do not overinflate. Uneven tire pressure could cause the cutting deck to mow unevenly.

Fuse

A 20 amp fuse is installed in your tractor's wiring harness to protect the tractor's electrical system from damage caused by excessive amperage.

If the electrical system does not function, or your tractor's engine will not crank, first check to be certain that the fuse has not blown.

It can be found under the hood mounted between the dash panel and fuel tank on the right-hand support bar.

IMPORTANT: Always use a 20 amp fuse for replacement.

Cutting Blades

WARNING: Be sure to shut the engine off, and remove ignition key to prevent unintended starting before removing the cutting blade(s) for sharpening or replacement. Protect your hands by using heavy gloves when grasping the blade.

WARNING: Periodically inspect the blade adapter and/or spindle for cracks or damage, especially if you strike a foreign object. Replace immediately if damaged.

The blades may be removed as follows.

- Remove the deck from beneath the tractor, (refer to **Cutting Deck Removal** on page 27) then carefully flip the deck over to expose its underside.
- Place a block of wood between the center deck housing baffle and the cutting blade to act as a stabilizer. See Figure 18.
- Use a wrench to remove the hex flange nut that secures the blade to the spindle assembly. See Figure 18.

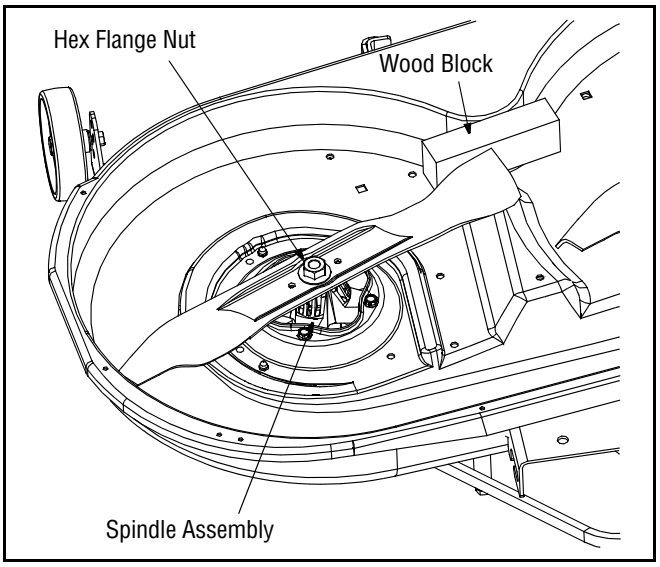


Figure 18

- To properly sharpen the cutting blades, remove equal amounts of metal from both ends of the blades along the cutting edges, parallel to the trailing edge, at a 25° to 30° angle.

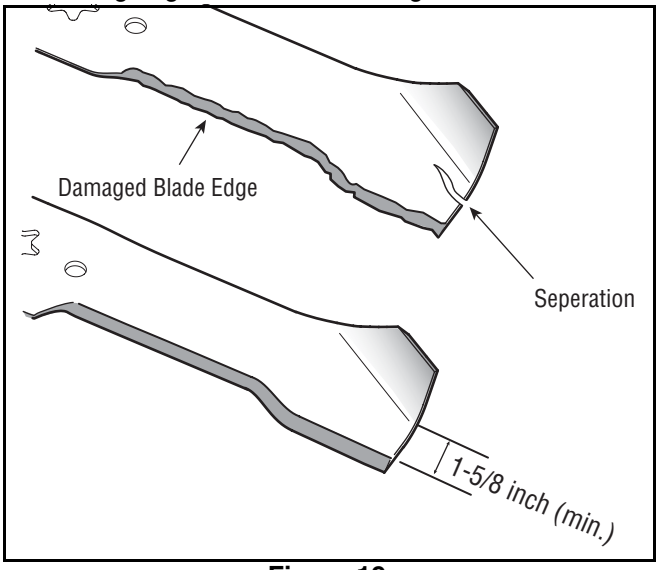


Figure 19

IMPORTANT: If the cutting edge of the blade has already been sharpened, or if any metal separation is present, replace the blades with new ones.

It is important that each cutting blade edge be ground equally to maintain proper blade balance. A poorly balanced blade will cause excessive vibration and may cause damage to the tractor and result in personal injury.

IMPORTANT: When replacing the blade, be sure to install the blade with the side of the blade marked ‘‘Bottom’’ (or with a part number stamped in it) facing the ground when the mower is in the operating position.

IMPORTANT: Use a torque wrench to tighten the blade spindle hex flange nut to between 70 lbs-ft. and 90 lbs-ft.

Battery

California Proposition 65 Warning: Battery posts, terminals, and related accessories contain lead and lead compounds, chemicals known to the State of California to cause cancer and reproductive harm. *Wash hands after handling.*

The battery is sealed and is maintenance-free. Acid levels cannot be checked and fluid can not be added.

- Always keep the battery cables and terminals clean and free of corrosive build-up.
- After cleaning the battery and terminals, apply a light coat of petroleum jelly or grease to both terminals
- Always keep the rubber boot positioned over the positive terminal to prevent shorting.

IMPORTANT: If removing the battery, disconnect the NEGATIVE (Black) wire from its terminal first, followed by the POSITIVE (Red) wire. When re-installing the battery, always connect the POSITIVE (Red) wire to the POSITIVE (+) terminal before connecting the NEGATIVE (Black) wire to the NEGATIVE (-) terminal. Be certain that the wires are connected to the correct terminals; reversing them could change the polarity and cause damage to your engine’s alternator.

Jump Starting

WARNING: Never jump start a damaged or frozen battery. Be certain the vehicles do not touch, and ignitions are off. Do not allow cable clamps to touch.

- Connect positive (+) cable to positive post (+) of your tractor’s discharged battery.
- Connect the other end of the (+) cable to the positive (+) post of the jumper battery.
- Connect the second negative (–) cable to the negative (–) post of the jumper battery.
- Make the final connection on the engine block of the stalled tractor, away from the battery. Attach to a unpainted part to assure a good connection.

IMPORTANT: If the jumper battery is installed on a vehicle (i.e. car, truck), do NOT start the vehicle’s engine when jump starting your tractor.

- Start the tractor (as instructed on page 16).
- Set the tractor’s parking brake before removing the jumper cables, in reverse order of connection.
- Allow the tractor’s engine to run for 15 minutes before shutting it off to allow the alternator time to charge the discharged battery.

Charging

If the unit has not been put into use for an extended period of time, charge the battery with an automotive-type 12-volt charger for a minimum of one hour at a maximum of six amps.

WARNING: Batteries give off an explosive gas while charging. Charge battery in a well ventilated area and keep away from an open flame or pilot light as on a water heater, space heater, furnace, clothes dryer or other gas appliances.

Cutting Deck Removal

To remove the cutting deck, proceed as follows:

- Place the PTO/Blade Engage knob in the disengaged (OFF) position and engage the parking brake.
- Lower the deck by moving the deck lift lever into the bottom notch on the right fender.
- Remove the deck belt from around the tractor’s electric PTO clutch (refer to **Changing the Deck Belt**).
- Looking at the cutting deck from the left side of the tractor, locate the deck support pin on the rear left side of the deck.
- Rotate the pin slightly toward the rear of the tractor and release it.
- Pull the deck support pin outward to release the deck from the deck lift arm. See Figure 20.

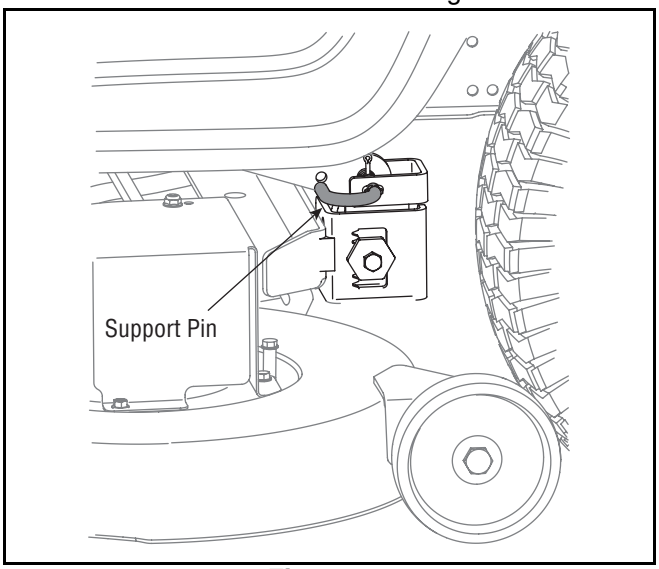


Figure 20

- Repeat the above steps on the tractor’s right side.
- Move the deck lift lever into the top notch to raise the deck lift arms up and out of the way.

- Gently slide the cutting deck toward the front of the tractor allowing the hooks on the deck to release themselves from the deck stabilizer rod.
- Gently slide the cutting deck (from the right side) out from underneath the tractor.

Changing the Deck Belt

WARNING: Be sure to shut the engine off, remove ignition key, disconnect the spark plug wire(s) and ground against the engine to prevent unintended starting before removing the belt(s).

WARNING: Avoid the possibility of a pinching injury. Do not place your fingers on the idler spring or between the belt and a pulley while removing the belt.

All belts on your tractor are subject to wear and should be replaced if any signs of wear are present.

IMPORTANT: The V-belts found on your tractor are specially designed to engage and disengage safely. A substitute (non-OEM) V-belt can be dangerous by not disengaging completely. For a proper working machine, use factory approved belts.

To change or replace the deck belt on your tractor, proceed as follows:

- Lower the deck by moving the deck lift lever into the bottom notch on the right fender.
- Remove the belt guards by removing the self-tapping screws that fasten them to the deck.
- To ease in removing the belt on Model GT2200, loosen, but do not remove, the bolt which secures the pivoting idler pulley to the idler bracket. See Figure 21.

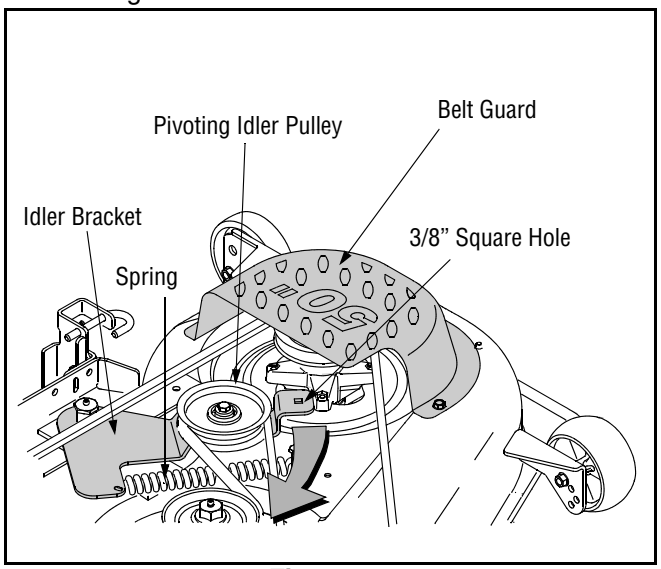


Figure 21

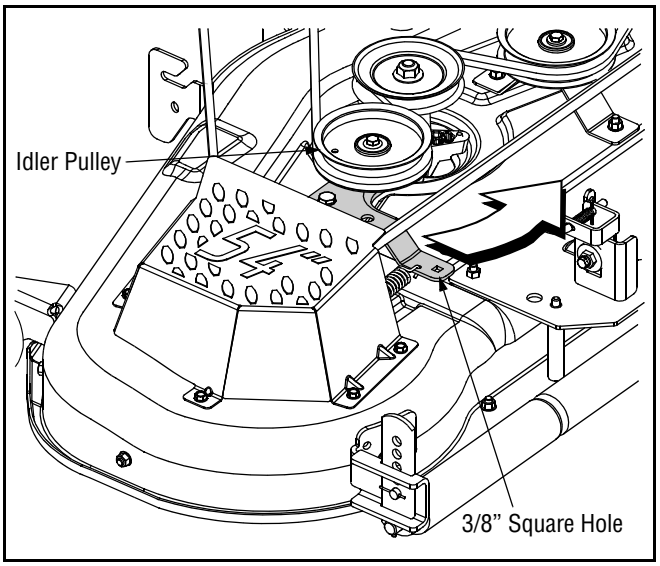


Figure 22

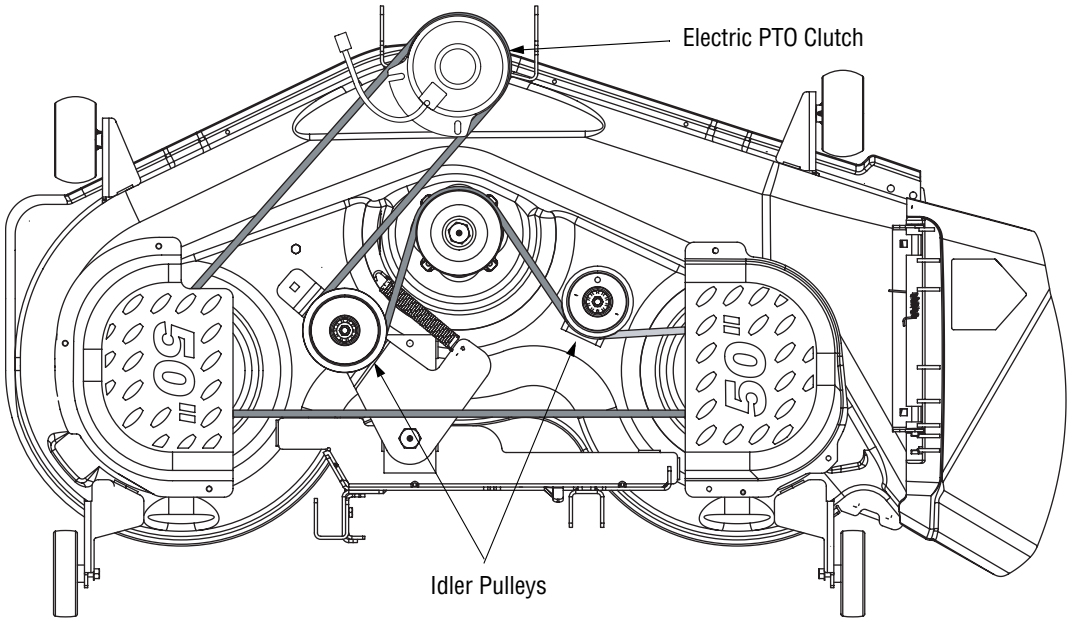
- Insert a 3/8"-drive ratchet wrench (set to *tighten,* Model GT2200 or set to *loosen,* Model GT2300) into the square hole found in the idler bracket on the left side of the deck's surface. See Figure 22 (Model GT2200) or Figure 22(Model GT2300).
- Grasp the ratchet's handle and pivot it to relieve tension on the belt.
- With belt tension relieved, **carefully remove the belt from around the left-hand spindle pulley**.

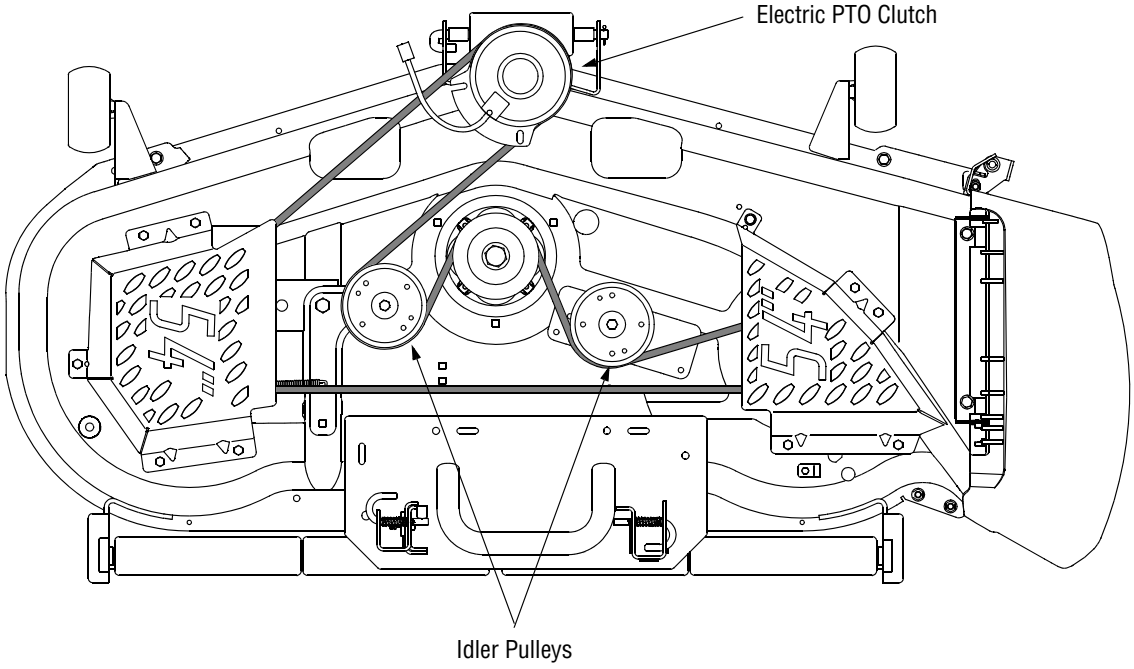
IMPORTANT: Carefully allow the ratchet to pivot rearward before removing it from the square hole.

- Remove the deck belt from around all pulleys, including the deck idler pulley(s) and the electric PTO clutch.

NOTE: *The idler pulley(s) may have to be loosened, but not removed, in order to remove the belt from around them.*

- Route the new belts (deck belt first) as shown on the following page.
- Remount the belt guards removed earlier.


Electric PTO Clutch
50"
50"
Idler Pulleys


Electric PTO Clutch
54"
54"
Idler Pulleys

SECTION 11: OFF-SEASON STORAGE

Clean and lubricate the tractor as instructed in **Section 7: MAINTAINING YOUR GARDEN TRACTOR** on page 21 of this manual before storing for an extended period.

Engine

If the engine will be out of service for two months or more, use the following storage procedure:

- Clean the exterior surfaces of the engine.
- Change the oil and filter while the engine is still warm from operation. Refer to **Changing Engine Oil** on page 22.
- The fuel system must be completely emptied, or the gasoline must be treated with a fuel stabilizer such as *STA-BIL®* to prevent deterioration. If you choose to use a stabilizer, follow the manufacturers recommendations, and add the correct amount for the capacity of the fuel system. Fill the fuel tank with clean, fresh gasoline. Run the engine for 2-3 minutes to get stabilized fuel into the carburetor.

  To empty the system, run the engine until the tank and system are empty.

WARNING: Drain fuel only into an approved container outdoors, away from an open flame. Allow engine to cool. Extinguish cigarettes, cigars, pipes, and other sources of ignition prior to draining fuel.

- Remove the spark plug. Add one tablespoon of engine oil into the spark plug hole. Install the plug, but do not reconnect the plug wire. Crank the engine two or three revolutions.
- Store the engine in a clean, dry place.

WARNING: Never store the machine or fuel container indoors where there is an open flame, spark or pilot light such as on water heater, furnace, clothes dryer or other gas appliance.

SECTION 12: MAINTENANCE CHART

	Before Each Use	After Initial 24 Hours	Every 10 Hours	Every 25 Hours	Every 50 Hours	Every Season	Prior to Storing
Clean Hood/Dash Louvers			✓				✓
Check Engine Oil Level	✓						
Clean and Re-oil Air Filter's Foam Precleaner				✓			
Replace Air Filter Element						✓	
Change Engine Oil & Filter		✓			✓	✓	
Clean Battery Terminals			✓				✓
Lube Front Axles and Rims				✓			✓
Clean Engine Cooling Fins				✓			✓
Lube Pedal Pivot Points			✓				✓
Lube Deck Spindles				✓			
Check Spark Plugs						✓	✓
Check Safety Interlock System	✓						

SECTION 13: TROUBLESHOOTING

Trouble	Possible Cause(s)	Corrective Action
Engine fails to start	PTO (Blade Engage) knob engaged.	Place PTO (Blade Engage) knob in disengaged (OFF) position.
	Parking brake not engaged.	Engage parking brake.
	Spark plug wire(s) disconnected.	Connect wire(s) to spark plug.
	Cchoke control not in correct starting position.	Pull Choke Control into CHOKE position.
	Choke not activated	Pull Choke Control into CHOKE position.
	Fuel tank empty, or stale fuel.	Fill tank with clean, fresh (less than 30 days old) gas.
	Blocked fuel line.	Clean fuel line or replace fuel filter.
	Faulty spark plug.	Clean, adjust gap or replace plug.
	Engine flooded.	Crank engine with throttle in FAST position.
Engine runs erratic	Unit running with CHOKE activated.	Push Choke Control out of CHOKE position.
	Spark plug wire(s) loose.	Connect and tighten spark plug wire(s).
	Blocked fuel line or stale fuel.	Clean fuel line; fill tank with clean, fresh (less than 30 days old) gasoline. Replace fuel filter, if so equipped.
	Vent in gas cap plugged.	Clear vent or replace cap if damaged.
	Water or dirt in fuel system.	Drain fuel tank. Refill with clean, fresh (less than 30 days old) gasoline.
	Dirty air cleaner.	Replace air cleaner paper element or clean foam precleaner.
Engine overheats	Engine oil level low.	Fill crankcase with proper capacity and weight of oil.
	Air flow restricted.	Clean grass clippings and debris from around the engine's cooling fins and blower housing.
Engine hesitates at high RPM	Spark plug gap too close.	Remove spark plug and reset the gap.
Idles poorly	Spark plug fouled, faulty or gap too wide.	Replace spark plug. Set plug gap.
	Dirty air cleaner.	Replace air cleaner element or clean pre-cleaner.
Excessive vibration	Cutting blade loose or unbalanced.	Tighten blade and spindle. Balance blade.
	Damaged or bent cutting blade.	Replace blade.
Mower will not mulch grass	Engine speed too low.	Place throttle in FAST (rabbit) position.
	Wet grass.	Do not mow when grass is wet; wait until later to cut.
	Excessively high grass.	Mow once at a high cutting height, then mow again at desired height or make a narrower cutting swath.
	Dull blade.	Sharpen or replace blade.
Uneven cut	Deck not balanced properly.	Perform side-to-side deck adjustment.
	Dull blade.	Sharpen or replace blade.
	Uneven tire pressure.	Check tire pressure in all four tires.

SECTION 14: SPECIFICATIONS*

	GT2200	GT2300
Capacities		
Fuel Tank	3.0 gal. (11.4 liters)	3.0 gal. (11.4 liters)
Engine Crankcase (w/ filter)	57.5 oz. (1.7 liters)	57.5 oz. (1.7 liters)
Hydrostatic Transmission		
Make and Model	*Hydro-Gear* 0510	*Hydro-Gear* 0510
Gear Ratio	22.2:1	22.2:1
Forward Speed	0 m.p.h. - 5.2 m.p.h.	0 m.p.h. - 5.2 m.p.h.
Reverse Speed	0 m.p.h. - 2.3 m.p.h.	0 m.p.h. - 2.3 m.p.h.
Engine (Air-cooled, 4-cycle)		
Make	*Kohler Courage*	*Kohler Courage*
Model	SV730	SV735
Cylinders	Twin	Twin
Bore	3.27 in. (83 mm)	3.27 in. (83 mm)
Stroke	2.64 in. (67 mm)	2.64 in. (67 mm)
Displacement	44.2 cubic in. (725 cc)	44.2 cubic in. (725 cc)
Power @3600 RPM	25 HP** (18.6 kW)	26 HP** (19.4 kW)
Maximum Torque	46.6 ft. lb. (63.2 Nm) @ 2000 RPM	45.2 ft. lb. (61.2) @2400
Compression Ratio	9:0:1	9:0:1
Engine Speed (governed)	3375 RPM	3375 RPM
Low Speed	1200 RPM (± 75 RPM)	1200 RPM (± 75 RPM)
Spark Plug Gap	.030 in. (.76 mm)	.030 in. (.76 mm)
Electrical System		
System Voltage	12-volt Negative Ground	12-volt Negative Ground
Battery	235 CCA (sealed)	235 CCA (sealed)
Alternator	15 Amp Regulated	15 Amp Regulated
Fuse (automotive type)	20 Amp	20 Amp
Headlights	Incandescent	Incandescent
Brakes	Single Disc (Dry)	Single Disc (Dry)
Turf Tires		
Front (inches)	16 x 7.5 x 8	16 x 7.5 x 8
Rear (inches)	23 x 10.5 x 12	23 x 10.5 x 12
Dimensions		
Cutting Width, Deck	50 in. (127.0 cm)	54 in. (137.2 cm)
Wheelbase	46 in. (116.8 cm)	46 in. (116.8 cm)
Length, over all	68 in. (172.7 cm)	68 in. (172.7 cm)
Width, over all	54 in. (137.2 cm)	60 in. (152.4 cm)
Height, over all	43 in. (109.2 cm)	43 in. (109.2 cm)
Ground Clearance	4.5 in. (11.4 cm)	4.5 in. (11.4 cm)
Turning Radius	21 in. (53 cm)	21 in. (53.3 cm)
Weight (approximate)	529 lb. (240 kg.)	529 lb. (240 kg.)

* *Toro* reserves the right to change product specifications, design, and standard equipment without notice and without incurring obligation

** *Kohler's* horsepower ratings exceed Society of Automotive Engineers Small Engine Test Code J1940. Actual engine horsepower is lower and affected by, but not limited to, accessories (air cleaner, exhaust, charging, cooling, fuel pump, etc.), application, engine speed and ambient operating conditions (temperature, humidity, and altitude).

NOTES

CALIFORNIA EMISSION CONTROL WARRANTY STATEMENT
YOUR WARRANTY RIGHTS AND OBLIGATIONS

The California Air Resources Board and MTD Consumer Group Inc are pleased to explain the evaporative emission control system warranty on your 2006 lawn mower. In California, new lawn mower must be designed, built and equipped to meet the State's stringent anti-smog standards. MTD Consumer Group Inc must warrant the EECS on your lawn mower for the period of time listed below provided there has been no abuse, neglect or improper maintenance of your lawn mower.

Your EECS may include parts such as the carburetor, fuel-injection system, the ignition system, catalytic converter, fuel tanks, fuel lines, fuel caps, valves, canisters, filters, vapor hoses, clamps, connectors, and other associated emission-related components.

Where a warrantable condition exists, MTD Consumer Group Inc will repair your lawn mower at no cost to you including diagnosis, parts and labor.

MANUFACTURER'S WARRANTY COVERAGE:

This evaporative emission control system is warranted for two years. If any evaporative emission-related part on your equipment is defective, the part will be repaired or replaced by MTD Consumer Group Inc.

OWNER'S WARRANTY RESPONSIBILITIES:

As the lawn mower owner, you are responsible for performance of the required maintenance listed in your owner's manual. MTD Consumer Group Inc recommends that you retain all receipts covering maintenance on your lawn mower, but MTD Consumer Group Inc cannot deny warranty solely for the lack of receipts.

As the lawn mower owner, you should however be aware that MTD Consumer Group Inc may deny you warranty coverage if your lawn mower or a part has failed due to abuse, neglect, or improper maintenance or unapproved modifications.

You are responsible for presenting your lawn mower to MTD Consumer Group Inc's distribution center or service center as soon as the problem exists. The warranty repairs should be completed in a reasonable amount of time, not to exceed 30 days. If you have a question regarding your warranty coverage, you should contact the MTD Consumer Group Inc Service Department at 1-800-800-7310.

GENERAL EMISSIONS WARRANTY COVERAGE:

MTD Consumer Group Inc warrants to the ultimate purchaser and each subsequent purchaser that the lawn mower is: Designed, built and equipped so as to conform with all applicable regulations; and free from defects in materials and workmanship that cause the failure of a warranted part to be identical in all material respects to that part as described in MTD Consumer Group Inc's application for certification.

The warranty period begins on the date the lawn mower is delivered to an ultimate purchaser or first placed into service. The warranty period is two years.

Subject to certain conditions and exclusions as stated below, the warranty on emission-related parts is as follows:

1. Any warranted part that is not scheduled for replacement as required maintenance in the written instructions supplied, is warranted for the warranty period stated above. If the part fails during the period of warranty coverage, the part will be repaired or replaced by MTD Consumer Group Inc according to subsection (4) below. Any such part repaired or replaced under warranty will be warranted for the remainder of the period.
2. Any warranted part that is scheduled only for regular inspection in the written instructions supplied is warranted for the warranty period stated above. Any such part repaired or replaced under warranty will be warranted for the remaining warranty period.
3. Any warranted part that is scheduled for replacement as required maintenance in the written instructions supplied is warranted for the period of time before the first scheduled replacement date for that part. If the part fails before the first scheduled replacement, the part will be repaired or replaced by MTD Consumer Group Inc according to subsection (4) below. Any such part repaired or replaced under warranty will be warranted for the remainder of the period prior to the first scheduled replacement point for the part.
4. Repair or replacement of any warranted part under the warranty provisions herein must be performed at a warranty station at no charge to the owner.
5. Notwithstanding the provisions herein, warranty services or repairs will be provided at all of our distribution centers that are franchised to service the subject engines or equipment.
6. The lawn mower owner will not be charged for diagnostic labor that is directly associated with diagnosis of a defective, emission-related warranted part, provided that such diagnostic work is performed at a warranty station.
7. MTD Consumer Group Inc is liable for damages to other engine or equipment components proximately caused by a failure under warranty of any warranted part.
8. Throughout the lawn mower warranty period stated above, MTD Consumer Group Inc will maintain a supply of warranted parts sufficient to meet the expected demand for such parts.
9. Any replacement part may be used in the performance of any warranty maintenance or repairs and must be provided without charge to the owner. Such use will not reduce the warranty obligations of MTD Consumer Group Inc.
10. Add-on or modified parts that are not exempted by the Air Resources Board may not be used. The use of any non-exempted add-on or modified parts by the ultimate purchaser will be grounds for disallowing a warranty claims. MTD Consumer Group Inc will not be liable to warrant failures of warranted parts caused by the use of a non-exempted add-on or modified part.

WARRANTED PARTS:

The repair or replacement of any warranted part otherwise eligible for warranty coverage may be excluded from such warranty coverage if MTD Consumer Group Inc demonstrates that the lawn mower has been abused, neglected, or improperly maintained, and that such abuse, neglect, or improper maintenance was the direct cause of the need for repair or replacement of the part. That notwithstanding, any adjustment of a component that has a factory installed, and properly operating, adjustment limiting device is still eligible for warranty coverage. The following emission warranty parts list are covered: Fuel Line, Fuel Line Clamps

The Toro Company

MANUFACTURER'S LIMITED WARRANTY FOR LAWN & GARDEN TRACTORS

IMPORTANT: To obtain warranty coverage owner must present an original proof of purchase and applicable maintenance records to the servicing dealer. Please see the operator's manual for information on required maintenance and service intervals.

The limited warranty set forth below is given by **The Toro Company ("Toro")** and **The Toro Warranty Company**, pursuant to an agreement between them, with respect to new merchandise purchased or leased and used in the United States and/or its territories and possessions, and by Toro with respect to new merchandise purchased or leased and used in Canada and/or its territories and possession.

Toro warrants this product (excluding its *Normal Wear Parts and Batteries* as described below) against defects in material and workmanship for a period of two (2) years or eighty (80) operation hours, whichever comes first, commencing on the date of original retail purchase or lease and will, at its option, repair or replace, free of charge, any part found to be defective in materials or workmanship.

Normal Wear Parts are warranted to be free from defects in material and workmanship for a period of thirty (30) days from the date of original purchase or lease. Normal wear parts include, but are not limited to items such as: belts, blades, blade adapters, grass bags, rider deck wheels, seats, and tires.

Batteries have a one-year prorated limited warranty against defects in material and workmanship, with 100% replacement during the first three months. After three months, the battery replacement credit is based on the months remaining in the twelve (12) month period dating back to the original date of original sale or lease. Any replacement battery will be warranted only for the remainder of the original warranty period.

This limited warranty shall only apply if this product has been operated and maintained in accordance with the Operator's Manual furnished with the product, and has not been subject to misuse, abuse, commercial use, neglect, accident, improper maintenance, alteration, vandalism, theft, fire, water, or damage because of other peril or natural disaster. Damage resulting from the installation or use of any part, accessory or attachment not approved by Toro for use with the product(s) covered by this manual will void your warranty as to any resulting damage. In addition, Toro may deny warranty coverage if the hour meter, or any part thereof, is altered, modified, disconnected or otherwise tampered with.

HOW TO OBTAIN SERVICE: Warranty service is available, WITH PROOF OF PURCHASE AND APPLICABLE MAINTENANCE RECORDS, through your local authorized service dealer. To locate the dealer in your area:

In the U.S.A. or Canada:
Check your Yellow Pages, or contact **The Customer Care Department, The Toro Warranty Company at 8111 Lyndale Avenue South, Bloomington, MN 55420-1196, call *in the U.S.* 1-888-384-9942 (*In Canada* 1-888-848-4073) or log on to our website at www.toro.com.**

Without limiting the foregoing, this limited warranty does not provide coverage in the following cases:

a. The engine or component parts thereof. These items may carry a separate manufacturer's warranty. Refer to applicable manufacturer's warranty for terms and conditions.

b. Routine maintenance items such as lubricants, filters, blade sharpening, tune-ups, brake adjustments, clutch adjustments, deck adjustments, and normal deterioration of the exterior finish due to use or exposure.

c. Service completed by someone other than an authorized service dealer.

d. Toro does not extend any warranty for products sold or exported outside of the United States and/or Canada, and their respective possessions and territories, except those sold through Toro's authorized channels of export distribution.

e. Replacement parts and/or accessories that are not genuine Toro parts.

f. Transportation charges and service calls.

g. Toro does not warrant this product for commercial use.

There are no implied warranties, including without limitation any implied warranty of merchantability or fitness for a particular purpose. No warranties shall apply after the applicable period of express written warranty above. No other express warranties beyond those mentioned above, given by any person or entity, including a dealer or retailer, with respect to any product, shall bind Toro. The exclusive remedy is repair or replacement of the product as set forth above. The terms of this warranty provide the sole and exclusive remedy arising from the sale and/or lease of the products covered hereby. Toro shall not be liable for any incidental or consequential loss or damage including, without limitation, expenses incurred for substitute or replacement lawn care services or for rental expenses to temporarily replace a warranted product.

Some jurisdictions do not allow the exclusion or limitation of incidental or consequential damages, or limitations on how long an implied warranty lasts, so the above exclusions or limitations may not apply to you.

In no event shall recovery of any kind be greater than the amount of the purchase price of the product sold. **Alteration of safety features of the product shall void this warranty**. You assume the risk and liability for loss, damage, or injury to you and your property and/or to others and their property arising out of the misuse or inability to use the product.

This limited warranty shall not extend lo anyone other than the original purchaser or to the person for whom it was purchased as a gift.

HOW LOCAL LAWS RELATE TO THIS WARRANTY: This limited warranty gives you specific legal rights, and you may also have other rights that vary in different jurisdictions.